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5.7

12/02



**U.S. Environmental  
Protection Agency**

**Supplemental Site Investigations/  
Site Characterization Report  
Himco Dump Superfund Site  
Elkhart, Indiana**

**Final**

**Volume 3 of 4  
Appendix I**

**December 2002**

## **Appendix I**

### **Laboratory Results and Data Quality Evaluation Reports for 1996-2000 Ground Water, Soil and Soil Gas Samples**

- Laboratory Results for the 1996 Supplemental Site Investigation
  - Data Quality Evaluation Reports and Laboratory Results  
for the  
1998 Supplemental Site Investigation  
and  
1999-2000 Supplemental Site Investigations

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION V

DATE: Jan 21, 1997

SUBJECT: Review of Data  
Received for Review on December 23, 1996

FROM: Stephen L. Ostrodka, Chief (SRT-4J)  
Superfund Technical Support Section

TO: Data User: Superfund *Patricia Scott for Steve Ostrodka*  
01/21/97

has reviewed the data for the following case:

CLIENT NAME: HIMCO DUMP (IN)

USE NUMBER: 25143 SDG NUMBER: EAXX8

Number and Type of Samples: 8 - Waters

Sample Numbers: EAXX8 - 9, EAXY0 - 5

Laboratory: DATAHEM Hrs. for Review: 4.5 + 1.6

Following are our findings:

The data are acceptable and usable with the qualifications described in the attached narrative.

*Patricia Scott*

cc: Brian Freeman  
Region 5 TPO  
Mail Code: SM-5J

Case Number : 25143  
Site Name: HIMCO DUMP (IN)

SDG Number: EAXX8  
Laboratory: DATACHEM

Below is a summary of the out-of-control audits and the possible effects on the data for this case:

Eight (8) preserved water samples, numbered EAXX8, EAXX9 and EAXY0 through EAXY5, were collected on November 12, 1996 and November 13, 1996. The lab received the samples on November 15, 1996 in good condition. All eight (8) samples were analyzed for the full list of volatile organic analytes. Six (6) samples (EAXX9, EAXY0 through EAXY4) were analyzed for the full list of semivolatile organic analytes. All were analyzed according to CLP SOW OLM03.2 3/90.

Prepared By: A.C. Harvey/Lockheed-Martin ESAT  
Date: January 10, 1997

Case Number : 25143  
Sample Name: HIMCO DUMP (IN)

SDG Number: EAXX8  
Laboratory: DATACHEM

#### HOLDING TIME

No problems found for this qualification.

#### GC/MS TUNING AND GC INSTRUMENT PERFORMANCE

No problems found for this qualification.

#### CALIBRATION

The following volatile samples are associated with a continuing calibration percent difference (%D) outside primary criteria. Hits are qualified "J" and non-detects are qualified "UJ".

Acetone, 1,2-Dichloroethane, 2-Butanone, 4-Methyl-2-Pentanone, 2-Hexanone  
EAXX8, EAXX9, EAXY0, EAXY1, EAXY2, EAXY3, EAXY4,  
EAXY4MS, EAXY4MSD, EAXY5, VBLK01, VHBLK01

The following semivolatile samples are associated with a continuing calibration percent difference (%D) outside primary criteria. Hits are qualified "J" and non-detects are qualified "UJ".

Pentachlorophenol  
EAXX9, EAXY0, EAXY1, EAXY2, EAXY3, EAXY4,  
EAXY4MS, EAXY4MSD, SBLK01

#### BLANKS

The following volatile samples have analyte concentrations reported below the CRQL and less than or equal to ten times (10X) the associated method blank concentration. Reported sample concentrations have been elevated to the CRQL. Hits are qualified "U" and non-detects are not flagged.

Methylene Chloride  
EAXY2, EAXY3, EAXY4, EAXY4MS, EAXY4MSD, EAXY5,  
VHBLK01

The following semivolatile samples have analyte concentrations reported below the CRQL and less than or equal to ten times (10X) the associated method blank concentration. Reported sample concentrations have been elevated to the CRQL. Hits are qualified "U" and non-detects are not flagged.

Di-n-butylphthalate  
EAXX9, EAXY0, EAXY1, EAXY2, EAXY3, EAXY4,  
EAXY4MS, EAXY4MSD

Case Number : 25143  
Site Name: HIMCO DUMP (IN)

SDG Number: EAXX8  
Laboratory: DATACHEM

5. SYSTEM MONITORING COMPOUND AND SURROGATE RECOVERY

No problems found for this qualification.

6. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

The following semivolatile matrix spike/matrix spike duplicate samples have percent recoveries which exceed the upper limit of the criteria window.

EAXY4MS  
4-Nitrophenol, Pentachlorophenol

EAXY4MSD  
4-Chloro-3-methylphenol, 4-Nitrophenol,  
2,4-Dinitrotoluene, Pentachlorophenol

The presence of 4-Chloro-3-methylphenol, 4-Nitrophenol, 2,4-Dinitrotoluene and Pentachlorophenol in the unspiked sample, EAXY4, is qualified "J" and non-detects are not flagged.

7. FIELD BLANK AND FIELD DUPLICATE

Sample EAXY3 was a field blank. Sample EAXY1 is a field duplicate of Sample EAXY0. Results are not qualified based upon the results of the field blank or field duplicates.

8. INTERNAL STANDARDS

No problems found for this qualification.

9. COMPOUND IDENTIFICATION

After reviewing the mass spectra and chromatograms it appears that all VOA, SVOA, and ~~Pesticide/PCB~~ compounds were properly identified.

10. COMPOUND QUANTITATION AND REPORTED DETECTION LIMITS

The following volatile samples have analyte concentrations below the quantitation limit (CRQL). All results below the CRQL are qualified "J".

EAXY2  
1,2-Dichloroethene (total)

EAXY4  
Benzene

EAXY5  
1,1-Dichloroethane, 1,2-Dichloroethene (total),  
1,2-Dichloropropane, Trichloroethene, Benzene

Prepared By: A.C. Harvey/Lockheed-Martin ESAT  
Date: January 10, 1997

*01/12/97*

se Number : 25143  
te Name: HIMCO DUMP (IN)

SDG Number: EAXX8  
Laboratory: DATACHEM

VBLK01  
Methylene Chloride

The following semivolatiles have analyte concentrations below the quantitation limit (CRQL). All results below the CRQL are qualified "J".

SBLK01  
Di-n-butylphthalate

. SYSTEM PERFORMANCE

GC/MS baseline indicated acceptable performance. ~~The GC baseline for the pesticide analysis was acceptable.~~ 1/5/97

. ADDITIONAL INFORMATION

None.

## CADRE Data Qualifier Sheet

| <u>Qualifiers</u> | <u>Data Qualifier Definitions</u>   |
|-------------------|---|
| U                 | The analyte was analyzed for, but was not detected above the reported sample quantitation limit.  |
| J                 | The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.   |
| UJ                | The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the action limit of quantitation necessary to accurately and precisely measure the analyte in the sample. |
| N                 | The analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification.   |
| NJ                | The analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification and the associated numerical value represents its approximate concentration.   |
| R                 | The data are unusable. (The compound may or may not be present)   |
| H                 | Sample result is estimated and biased high.   |
| L                 | Sample result is estimated and biased low.  |

TCL QUALIFIED SPREADSHEET

Case No: 25143  
 JG No: EAXX8

Site: HIMCO DUMP  
 Laboratory: DATACHEM INC.

| PA E NUMBER:<br>EGID... SAMPLE NUMBER:<br>AMPLE LOCATION:<br>AMPLE TYPE:<br>MATRIX/ANALYSIS:<br>DILUTION FACTOR:<br>PERCENT MOISTURE: | EAXX8<br>TRIP BLANK<br>Routine Sample<br>Water/LOW<br>1.0 | EAXX9<br>WT105A<br>Routine Sample<br>Water/LOW<br>1.0 | EAXY0<br>WT111A<br>Routine Sample<br>Water/LOW<br>1.0 | EAXY1<br>WT111AD<br>Routine Sample<br>Water/LOW<br>1.0 | EAXY2<br>WT106A<br>Routine Sample<br>Water/LOW<br>1.0 |
|---|---|---|---|--|---|
| OA  |   |   |   |  |   |
| Chloromethane   | 10 U  | 10 U  | 10 U  | 10 U   | 10 U  |
| Bromomethane  | 10 U  | 10 U  | 10 U  | 10 U   | 10 U  |
| Vinyl Chloride  | 10 U  | 10 U  | 10 U  | 10 U   | 10 U  |
| Chloroethane  | 10 U  | 10 U  | 10 U  | 10 U   | 10 U  |
| Ethylene Chloride   | 10 U  | 10 U  | 10 U  | 10 U   | 10 U  |
| Acetone   | 10 UJ   | 10 UJ   | 10 UJ   | 10 UJ  | 10 UJ   |
| Carbon Disulfide  | 10 U  | 10 U  | 10 U  | 10 U   | 10 U  |
| 1,1-Dichloroethene  | 10 U  | 10 U  | 10 U  | 10 U   | 10 U  |
| 1,1-Dichloroethane  | 10 U  | 10 U  | 10 U  | 10 U   | 10 U  |
| 1,2-Dichloroethene (total)  | 10 U  | 10 U  | 10 U  | 10 U   | 10 U  |
| Chloroform  | 10 U  | 10 U  | 10 U  | 10 U   | 10 U  |
| 1,2-Dichloroethane  | 10 UJ   | 10 UJ   | 10 UJ   | 10 UJ  | 10 UJ   |
| 2-Butanone  | 10 UJ   | 10 UJ   | 10 UJ   | 10 UJ  | 10 UJ   |
| 1,1,1-Trichloroethane   | 10 U  | 10 U  | 10 U  | 10 U   | 10 U  |
| Carbon tetrachloride  | 10 U  | 10 U  | 10 U  | 10 U   | 10 U  |
| Bromochloromethane  | 10 U  | 10 U  | 10 U  | 10 U   | 10 U  |
| 1,2-Dichloropropane   | 10 U  | 10 U  | 10 U  | 10 U   | 10 U  |
| cis-1,3-Dichloropropene   | 10 U  | 10 U  | 10 U  | 10 U   | 10 U  |
| Trichloroethene   | 10 U  | 10 U  | 10 U  | 10 U   | 10 U  |
| Bromochloromethane  | 10 U  | 10 U  | 10 U  | 10 U   | 10 U  |
| 1,1,2-Trichloroethane   | 10 U  | 10 U  | 10 U  | 10 U   | 10 U  |
| Benzene   | 10 U  | 10 U  | 10 U  | 10 U   | 10 U  |
| trans-1,3-Dichloropropene   | 10 U  | 10 U  | 10 U  | 10 U   | 10 U  |
| Bromomethane  | 10 U  | 10 U  | 10 U  | 10 U   | 10 U  |
| 2-Pentanone   | 10 UJ   | 10 UJ   | 10 UJ   | 10 UJ  | 10 UJ   |
| 2-Hexanone  | 10 UJ   | 10 UJ   | 10 UJ   | 10 UJ  | 10 UJ   |
| Tetrachloroethene   | 10 U  | 10 U  | 10 U  | 10 U   | 10 U  |
| 1,1,2,2-Tetrachloroethane   | 10 U  | 10 U  | 10 U  | 10 U   | 10 U  |
| Toluene   | 10 U  | 10 U  | 10 U  | 10 U   | 10 U  |
| Chlorobenzene   | 10 U  | 10 U  | 10 U  | 10 U   | 10 U  |
| Ethylbenzene  | 10 U  | 10 U  | 10 U  | 10 U   | 10 U  |
| Styrene   | 10 U  | 10 U  | 10 U  | 10 U   | 10 U  |
| Xylene (total)  | 10 U  | 10 U  | 10 U  | 10 U   | 10 U  |

54  
78  
10

Water units are reported in ug/L.  
 Soil units are reported in ug/Kg.

TCL QUALIFIED SPREADSHEET

Case No: 25143  
SDG No: EAXX8

Site: HIMCO DUMP  
Laboratory: DATACHEM INC.

| EPA SAMPLE NUMBER:<br>REGIONAL SAMPLE NUMBER:<br>SAMPLE LOCATION:<br>SAMPLE TYPE:<br>MATRIX/ANALYSIS:<br>DILUTION FACTOR:<br>PERCENT MOISTURE: | EAXY3<br>FIELD BLANK<br>Routine Sample<br>Water/LOW<br>1.0 | EAXY4<br>WT115A<br>Routine Sample<br>Water/LOW<br>1.0 | EAXY4MS<br>Matrix Spike<br>Water/LOW<br>1.0 | EAXY4MSD<br>Matrix Spike Dup<br>Water/LOW<br>1.0 | EAXY5<br>WT116A<br>Routine Sample<br>Water/LOW<br>1.0 |
|--|--|---|---|--|---|
| VOA  |  |   |   |  |   |
| 1 Chloromethane  | 10 U   | 10 U  | 10 U  | 10 U   | 10 U  |
| 2 Bromomethane   | 10 U   | 10 U  | 10 U  | 10 U   | 10 U  |
| 3 Vinyl Chloride   | 10 U   | 10 U  | 10 U  | 10 U   | 10 U  |
| 4 Chloroethane   | 10 U   | 10 U  | 10 U  | 10 U   | 10 U  |
| 4 Methylene Chloride   | 10 U   | 10 U  | 10 U  | 10 U   | 10 U  |
| 5 Acetone  | 10 UJ  | 10 UJ   | 10 UJ                                       | 10 UJ  | 10 UJ   |
| 4 Carbon Disulfide   | 10 U   | 10 U  | 10 U  | 10 U   | 10 U  |
| 3 1,1-Dichloroethene   | 10 U   | 10 U  | 47  | 47   | 10 U  |
| 1 1,1-Dichloroethane   | 10 U   | 10 U  | 10 U  | 10 U   | 5 J   |
| 2 1,2-Dichloroethene (total)   | 10 U   | 10 U  | 10 U  | 10 U   | 0.4 J   |
| 1 Chloroform   | 10 U   | 10 U  | 10 U  | 10 U   | 10 U  |
| 1 1,2-Dichloroethane   | 10 UJ  | 10 UJ   | 10 UJ                                       | 10 UJ  | 10 UJ   |
| 2-Butanone   | 10 UJ  | 10 UJ   | 10 UJ                                       | 10 UJ  | 10 UJ   |
| 1 1,1,1-Trichloroethane  | 10 U   | 10 U  | 10 U  | 10 U   | 10 U  |
| 5 Carbon Tetrachloride   | 10 U   | 10 U  | 10 U  | 10 U   | 10 U  |
| 1 Bromodichloromethane   | 10 U   | 10 U  | 10 U  | 10 U   | 10 U  |
| 1 1,2-Dichloropropane  | 10 U   | 10 U  | 10 U  | 10 U   | 10 U  |
| 1 cis-1,3-Dichloropropene  | 10 U   | 10 U  | 10 U  | 10 U   | 10 U  |
| 1 Trichloroethene  | 10 U   | 10 U  | 46  | 45   | 0.5 J   |
| 1 Dibromochloromethane   | 10 U   | 10 U  | 10 U  | 10 U   | 10 U  |
| 1 1,1,2-Trichloroethane  | 10 U   | 10 U  | 10 U  | 10 U   | 10 U  |
| 1 Benzene  | 10 U   | 2 J   | 48  | 47   | 7 J   |
| 1 trans-1,3-Dichloropropene  | 10 U   | 10 U  | 10 U  | 10 U   | 10 U  |
| 1 Bromoform  | 10 U   | 10 U  | 10 U  | 10 U   | 10 U  |
| 4-Methyl-2-Pentanone   | 10 UJ  | 10 UJ   | 10 UJ                                       | 10 UJ  | 10 UJ   |
| 2-Hexanone   | 10 UJ  | 10 UJ   | 10 UJ                                       | 10 UJ  | 10 UJ   |
| 1 Tetrachloroethene  | 10 U   | 10 U  | 10 U  | 10 U   | 10 U  |
| 1 1,1,2,2-Tetrachloroethane  | 10 U   | 10 U  | 10 U  | 10 U   | 10 U  |
| 1 Toluene  | 10 U   | 10 U  | 47  | 47   | 10 U  |
| 1 Chlorobenzene  | 10 U   | 10 U  | 46  | 46   | 10 U  |
| 1 Ethylbenzene   | 10 U   | 10 U  | 10 U  | 10 U   | 10 U  |
| 1 Styrene  | 10 U   | 10 U  | 10 U  | 10 U   | 10 U  |
| 1 Xylene (total)   | 10 U   | 10 U  | 10 U  | 10 U   | 10 U  |

Water units are reported in ug/L.  
Soil units are reported in ug/Kg.

TCL QUALIFIED SPREADSHEET

Case No: 25143  
 DG # EAXX8

Site: HIMCO DUMP  
 Laboratory: DATACHEM INC.

| PA S LE NUMBER:<br>REGIONAL SAMPLE NUMBER:<br>SAMPLE LOCATION:<br>SAMPLE TYPE:<br>MATRIX/ANALYSIS:<br>DILUTION FACTOR:<br>PERCENT MOISTURE: | VBLK01<br>Method Blank<br>Water/LOW<br>1.0 | VHBLK01<br>Storage Blank<br>Water/LOW<br>1.0 |  |  |  |
|---|--|--|--|--|--|
| OA  |  |  |  |  |  |
| Chloromethane   | 10 U                                       | 10 U   |  |  |  |
| Bromomethane  | 10 U                                       | 10 U   |  |  |  |
| Vinyl Chloride  | 10 U                                       | 10 U   |  |  |  |
| Chloroethane  | 10 U                                       | 10 U   |  |  |  |
| Dichloroethane  | 0.8 J                                      | 10 U   |  |  |  |
| Acetone   | 10 UJ                                      | 10 UJ  |  |  |  |
| Carbon Disulfide  | 10 U                                       | 10 U   |  |  |  |
| 1,1-Dichloroethene  | 10 U                                       | 10 U   |  |  |  |
| 1,1-Dichloroethane  | 10 U                                       | 10 U   |  |  |  |
| 1,2-Dichloroethane (total)  | 10 U                                       | 10 U   |  |  |  |
| Chloroform  | 10 U                                       | 10 U   |  |  |  |
| 1,2-Dichloroethane  | 10 UJ                                      | 10 UJ  |  |  |  |
| 2-Butanone  | 10 UJ                                      | 10 UJ  |  |  |  |
| 1,1,1-Trichloroethane   | 10 U                                       | 10 U   |  |  |  |
| Carbon Tetrachloride  | 10 U                                       | 10 U   |  |  |  |
| Bromodichloromethane  | 10 U                                       | 10 U   |  |  |  |
| 1,2-Dichloropropane   | 10 U                                       | 10 U   |  |  |  |
| cis-1,3-Dichloropropene   | 10 U                                       | 10 U   |  |  |  |
| Trichloroethene   | 10 U                                       | 10 U   |  |  |  |
| Dibromochloromethane  | 10 U                                       | 10 U   |  |  |  |
| 1,1,2-Trichloroethane   | 10 U                                       | 10 U   |  |  |  |
| Benzene   | 10 U                                       | 10 U   |  |  |  |
| trans-1,3-Dichloropropene   | 10 U                                       | 10 U   |  |  |  |
| Bromobenzene  | 10 U                                       | 10 U   |  |  |  |
| 4-Methyl-2-Pentanone  | 10 UJ                                      | 10 UJ  |  |  |  |
| 2-Hexanone  | 10 UJ                                      | 10 UJ  |  |  |  |
| Tetrachloroethene   | 10 U                                       | 10 U   |  |  |  |
| 1,1,2,2-Tetrachloroethane   | 10 U                                       | 10 U   |  |  |  |
| Toluene   | 10 U                                       | 10 U   |  |  |  |
| Chlorobenzene   | 10 U                                       | 10 U   |  |  |  |
| Ethylbenzene  | 10 U                                       | 10 U   |  |  |  |
| Styrene   | 10 U                                       | 10 U   |  |  |  |
| Xylene (total)  | 10 U                                       | 10 U   |  |  |  |

Water units are reported in ug/L.  
 Soil units are reported in ug/Kg.

TCL QUALIFIED SPREADSHEET

Case No: 25143  
SDG No: EAXX8

Site: HIMCO DUMP  
Laboratory: DATACHEM INC.

| EPA SAMPLE NUMBER:<br>REGIONAL SAMPLE NUMBER:<br>SAMPLE LOCATION:<br>SAMPLE TYPE:<br>MATRIX/ANALYSIS:<br>DILUTION FACTOR:<br>PERCENT MOISTURE: | EAXX9<br>WT105A<br>Routine Sample<br>Water/LOW<br>1.0 | EAXY0<br>WT111A<br>Routine Sample<br>Water/LOW<br>1.0 | EAXY1<br>WT111AD<br>Routine Sample<br>Water/LOW<br>1.0 | EAXY2<br>WT106A<br>Routine Sample<br>Water/LOW<br>1.0 | EAXY3<br>FIELD BLANK<br>Routine Sample<br>Water/LOW<br>1.0 |
|--|---|---|--|---|--|
| <b>BNA</b>   |   |   |  |   |  |
| Phenol   | 10 U  | 10 U  | 10 U   | 10 U  | 10 U   |
| bis(2-Chloroethyl)ether  | 10 U  | 10 U  | 10 U   | 10 U  | 10 U   |
| 2-Chlorophenol   | 10 U  | 10 U  | 10 U   | 10 U  | 10 U   |
| 1,3-Dichlorobenzene  | 10 U  | 10 U  | 10 U   | 10 U  | 10 U   |
| 1,4-Dichlorobenzene  | 10 U  | 10 U  | 10 U   | 10 U  | 10 U   |
| 1,2-Dichlorobenzene  | 10 U  | 10 U  | 10 U   | 10 U  | 10 U   |
| 2-Methylphenol   | 10 U  | 10 U  | 10 U   | 10 U  | 10 U   |
| 2,2'-oxybis(1-Chloropropane)   | 10 U  | 10 U  | 10 U   | 10 U  | 10 U   |
| 4-Methylphenol   | 10 U  | 10 U  | 10 U   | 10 U  | 10 U   |
| N-Nitroso-di-n-propylamine   | 10 U  | 10 U  | 10 U   | 10 U  | 10 U   |
| Hexachloroethane   | 10 U  | 10 U  | 10 U   | 10 U  | 10 U   |
| Nitrobenzene   | 10 U  | 10 U  | 10 U   | 10 U  | 10 U   |
| Isophorone   | 10 U  | 10 U  | 10 U   | 10 U  | 10 U   |
| 2-Nitrophenol  | 10 U  | 10 U  | 10 U   | 10 U  | 10 U   |
| 2,4-Dimethylphenol   | 10 U  | 10 U  | 10 U   | 10 U  | 10 U   |
| bis(2-Chloroethoxy)methane   | 10 U  | 10 U  | 10 U   | 10 U  | 10 U   |
| 2,4-Dichlorophenol   | 10 U  | 10 U  | 10 U   | 10 U  | 10 U   |
| 1,2,4-Trichlorobenzene   | 10 U  | 10 U  | 10 U   | 10 U  | 10 U   |
| Naphthalene  | 10 U  | 10 U  | 10 U   | 10 U  | 10 U   |
| 4-Chloroaniline  | 10 U  | 10 U  | 10 U   | 10 U  | 10 U   |
| Hexachlorobutadiene  | 10 U  | 10 U  | 10 U   | 10 U  | 10 U   |
| 4-Chloro-3-methylphenol  | 10 U  | 10 U  | 10 U   | 10 U  | 10 U   |
| 2-Methylnaphthalene  | 10 U  | 10 U  | 10 U   | 10 U  | 10 U   |
| Hexachlorocyclopentadiene  | 10 U  | 10 U  | 10 U   | 10 U  | 10 U   |
| 2,4,6-Trichlorophenol  | 10 U  | 10 U  | 10 U   | 10 U  | 10 U   |
| 2,4,5-Trichlorophenol  | 25 U  | 25 U  | 25 U   | 25 U  | 25 U   |
| 2-Chloronaphthalene  | 10 U  | 10 U  | 10 U   | 10 U  | 10 U   |
| 2-Nitroaniline   | 25 U  | 25 U  | 25 U   | 25 U  | 25 U   |
| Dimethylphthalate  | 10 U  | 10 U  | 10 U   | 10 U  | 10 U   |
| Acenaphthylene   | 10 U  | 10 U  | 10 U   | 10 U  | 10 U   |
| 2,6-Dinitrotoluene   | 10 U  | 10 U  | 10 U   | 10 U  | 10 U   |
| 3-Nitroaniline   | 25 U  | 25 U  | 25 U   | 25 U  | 25 U   |
| Acenaphthene   | 10 U  | 10 U  | 10 U   | 10 U  | 10 U   |
| 2,4-Dinitrophenol  | 25 U  | 25 U  | 25 U   | 25 U  | 25 U   |
| 4-Nitrophenol  | 25 U  | 25 U  | 25 U   | 25 U  | 25 U   |
| Dibenzofuran   | 10 U  | 10 U  | 10 U   | 10 U  | 10 U   |
| 2,4-Dinitrotoluene   | 10 U  | 10 U  | 10 U   | 10 U  | 10 U   |
| Diethylphthalate   | 10 U  | 10 U  | 10 U   | 10 U  | 10 U   |
| 4-Chlorophenyl-phenylether   | 10 U  | 10 U  | 10 U   | 10 U  | 10 U   |
| Fluorene   | 10 U  | 10 U  | 10 U   | 10 U  | 10 U   |
| 4-Nitroaniline   | 25 U  | 25 U  | 25 U   | 25 U  | 25 U   |
| 4,6-Dinitro-2-methylphenol   | 25 U  | 25 U  | 25 U   | 25 U  | 25 U   |
| N-Nitrosodiphenylamine (1)   | 10 U  | 10 U  | 10 U   | 10 U  | 10 U   |
| 4-Bromophenyl-phenylether  | 10 U  | 10 U  | 10 U   | 10 U  | 10 U   |
| Hexachlorobenzene  | 10 U  | 10 U  | 10 U   | 10 U  | 10 U   |
| Pentachlorophenol  | 25 UJ   | 25 UJ   | 25 UJ  | 25 UJ   | 25 UJ  |
| Phenanthrene   | 10 U  | 10 U  | 10 U   | 10 U  | 10 U   |
| Anthracene   | 10 U  | 10 U  | 10 U   | 10 U  | 10 U   |
| Carbazole  | 10 U  | 10 U  | 10 U   | 10 U  | 10 U   |
| Di-n-butylphthalate  | 10 U  | 10 U  | 10 U   | 10 U  | 10 U   |
| Fluoranthene   | 10 U  | 10 U  | 10 U   | 10 U  | 10 U   |
| Pyrene   | 10 U  | 10 U  | 10 U   | 10 U  | 10 U   |
| Butylbenzylphthalate   | 10 U  | 10 U  | 10 U   | 10 U  | 10 U   |
| 3,3'-Dichlorobenzidine   | 10 U  | 10 U  | 10 U   | 10 U  | 10 U   |
| Benzo(a)anthracene   | 10 U  | 10 U  | 10 U   | 10 U  | 10 U   |
| Chrysene   | 10 U  | 10 U  | 10 U   | 10 U  | 10 U   |
| bis(2-Ethylhexyl)phthalate   | 10 U  | 10 U  | 10 U   | 10 U  | 10 U   |
| Di-n-octylphthalate  | 10 U  | 10 U  | 10 U   | 10 U  | 10 U   |
| Benzo(b)fluoranthene   | 10 U  | 10 U  | 10 U   | 10 U  | 10 U   |
| Benzo(k)fluoranthene   | 10 U  | 10 U  | 10 U   | 10 U  | 10 U   |
| Benzo(a)pyrene   | 10 U  | 10 U  | 10 U   | 10 U  | 10 U   |
| Indeno(1,2,3-cd)pyrene   | 10 U  | 10 U  | 10 U   | 10 U  | 10 U   |
| Dibenz(a,h)anthracene  | 10 U  | 10 U  | 10 U   | 10 U  | 10 U   |
| Benzo(g,h,i)perylene   | 10 U  | 10 U  | 10 U   | 10 U  | 10 U   |

TCL QUALIFIED SPREADSHEET

Site: HIMCO DUMP  
 Laboratory: DATACHEM INC.

se No: 25143  
 G No: EAXXB

| AS NUMBER:<br>REGIONAL SAMPLE NUMBER:<br>SAMPLE LOCATION:<br>SAMPLE TYPE:<br>MATRIX/ANALYSIS:<br>DILUTION FACTOR:<br>PERCENT MOISTURE: | EAXY4<br>WT115A<br>Routine Sample<br>Water/LOW<br>1.0 | EAXY4MS<br>Matrix Spike<br>Water/LOW<br>1.0 | EAXY4MSD<br>Matrix Spike Dup<br>Water/LOW<br>1.0 | SBLK01<br>Method Blank<br>Water/LOW<br>1.0 |
|--|---|---|--|--|
| IA   |   |   |  |  |
| phenol   | 10 U  | 58  | 67   | 10 U                                       |
| 1,2-Dichloroethyl ether  | 10 U  | 10 U  | 10 U   | 10 U                                       |
| 1-Chlorophenol   | 10 U  | 56  | 66   | 10 U                                       |
| 1,3-Dichlorobenzene  | 10 U  | 10 U  | 10 U   | 10 U                                       |
| 1,4-Dichlorobenzene  | 10 U  | 27  | 35   | 10 U                                       |
| 1,2-Dichlorobenzene  | 10 U  | 10 U  | 10 U   | 10 U                                       |
| 1-Methylphenol   | 10 U  | 10 U  | 10 U   | 10 U                                       |
| 1,2-dioxylbis(1-Chloropropane)   | 10 U  | 10 U  | 10 U   | 10 U                                       |
| 1-Methylphenol   | 10 U  | 10 U  | 10 U   | 10 U                                       |
| 1-Nitroso-di-n-propylamine   | 10 U  | 38  | 46   | 10 U                                       |
| hexachloroethane   | 10 U  | 10 U  | 10 U   | 10 U                                       |
| nitrobenzene   | 10 U  | 10 U  | 10 U   | 10 U                                       |
| sophorone  | 10 U  | 10 U  | 10 U   | 10 U                                       |
| 2-Nitrophenol  | 10 U  | 10 U  | 10 U   | 10 U                                       |
| 2,4-Dichlorophenol   | 10 U  | 10 U  | 10 U   | 10 U                                       |
| bis(2-Chloroethoxy)methane   | 10 U  | 10 U  | 10 U   | 10 U                                       |
| 2,4-Dichlorophenol   | 10 U  | 10 U  | 10 U   | 10 U                                       |
| 1,2,4-Trichlorobenzene   | 10 U  | 31  | 38   | 10 U                                       |
| Naphthalene  | 10 U  | 10 U  | 10 U   | 10 U                                       |
| 4-Chloroaniline  | 10 U  | 10 U  | 10 U   | 10 U                                       |
| Hexachlorobutadiene  | 10 U  | 10 U  | 10 U   | 10 U                                       |
| 4-Chloro-3-methylphenol  | 10 U  | 69  | 78   | 10 U                                       |
| 2-Methylnaphthalene  | 10 U  | 10 U  | 10 U   | 10 U                                       |
| Hexachlorocyclopentadiene  | 10 U  | 10 U  | 10 U   | 10 U                                       |
| 2,4-Trichlorophenol  | 10 U  | 10 U  | 10 U   | 10 U                                       |
| 2,4,5-Trichlorophenol  | 25 U  | 25 U  | 25 U   | 25 U                                       |
| 2-Chloronaphthalene  | 10 U  | 10 U  | 10 U   | 10 U                                       |
| 2-Nitroaniline   | 25 U  | 25 U  | 25 U   | 25 U                                       |
| Dimethylphthalate  | 10 U  | 10 U  | 10 U   | 10 U                                       |
| Acenaphthylene   | 10 U  | 10 U  | 10 U   | 10 U                                       |
| 2,6-Dinitrotoluene   | 10 U  | 10 U  | 10 U   | 10 U                                       |
| 3-Nitroaniline   | 25 U  | 25 U  | 25 U   | 25 U                                       |
| Acenaphthene   | 10 U  | 42  | 52   | 10 U                                       |
| 2,4-Dinitrophenol  | 25 U  | 25 U  | 25 U   | 25 U                                       |
| 4-Nitrophenol  | 25 U  | 73  | 90   | 25 U                                       |
| Dibenzofuran   | 10 U  | 10 U  | 10 U   | 10 U                                       |
| 2,4-Dinitrotoluene   | 10 U  | 43  | 56   | 10 U                                       |
| Diethylphthalate   | 10 U  | 10 U  | 10 U   | 10 U                                       |
| 4-Chlorophenyl-phenylether   | 10 U  | 10 U  | 10 U   | 10 U                                       |
| Fluorene   | 10 U  | 10 U  | 10 U   | 10 U                                       |
| 4-Nitroaniline   | 25 U  | 25 U  | 25 U   | 25 U                                       |
| 4,6-Dinitro-2-methylphenol   | 25 U  | 25 U  | 25 U   | 25 U                                       |
| N-Nitrosodiphenylamine (1)   | 10 U  | 10 U  | 10 U   | 10 U                                       |
| 4-Bromophenyl-phenylether  | 10 U  | 10 U  | 10 U   | 10 U                                       |
| Hexachlorobenzene  | 10 U  | 10 U  | 10 U   | 10 U                                       |
| Pentachlorophenol  | 25 U  | 110 J                                       | 100 J  | 25 U                                       |
| Phenanthrene   | 10 U  | 10 U  | 10 U   | 10 U                                       |
| Anthracene   | 10 U  | 10 U  | 10 U   | 10 U                                       |
| Carbazole  | 10 U  | 10 U  | 10 U   | 10 U                                       |
| Di-n-butylphthalate  | 10 U  | 10 U  | 10 U   | 10 U                                       |
| Fluoranthene   | 10 U  | 10 U  | 10 U   | 10 U                                       |
| Pyrene   | 10 U  | 38  | 43   | 10 U                                       |
| Butylbenzylphthalate   | 10 U  | 10 U  | 10 U   | 10 U                                       |
| 3,3'-Dichlorobenzidine   | 10 U  | 10 U  | 10 U   | 10 U                                       |
| Benzo(a)anthracene   | 10 U  | 10 U  | 10 U   | 10 U                                       |
| Chrysene   | 10 U  | 10 U  | 10 U   | 10 U                                       |
| 1,2-Ethylhexylphthalate  | 10 U  | 10 U  | 10 U   | 10 U                                       |
| 1-Octylphthalate   | 10 U  | 10 U  | 10 U   | 10 U                                       |
| Benzo(b)fluoranthene   | 10 U  | 10 U  | 10 U   | 10 U                                       |
| Benzo(k)fluoranthene   | 10 U  | 10 U  | 10 U   | 10 U                                       |
| Benzo(a)pyrene   | 10 U  | 10 U  | 10 U   | 10 U                                       |
| Indeno(1,2,3-cd)pyrene   | 10 U  | 10 U  | 10 U   | 10 U                                       |
| Dibenz(a,h)anthracene  | 10 U  | 10 U  | 10 U   | 10 U                                       |
| Benzo(g,h,i)perylene   | 10 U  | 10 U  | 10 U   | 10 U                                       |

| Sample | TIC                          | Ret.Time | Conc. | TICS  |       |
|--------|------------------------------|----------|-------|-------|-------|
|        |                              |          |       | Units | Flags |
| EAXY2  | METHANE, CHLOROFLUORO-       | 3.86     | 11    | UG/L  | JM    |
|        | ETHER                        | 6.54     | 7     | UG/L  | JM    |
|        | METHANE, DICHLOROFLUORO-     | 5.75     | 33    | UG/L  | JM    |
| EAXY5  | ETHER                        | 6.54     | 22    | UG/L  | JM    |
|        | METHANE, DICHLOROFLUORO-     | 5.75     | 8     | UG/L  | JM    |
| EAXY4  | ETHER                        | 6.54     | 12    | UG/L  | JM    |
|        | METHANE, DICHLOROFLUORO-     | 5.75     | 18    | UG/L  | JM    |
| EAXY0  | METHOXY ETHOXY ETHANOL ISOME | 4.10     | 2     | UG/L  | J     |
| EAXY1  | ALKOXY ETHANOL ISOMER        | 4.10     | 2     | UG/L  | J     |
| EAXY3  | UNKNOWN KETONE               | 6.18     | 3     | UG/L  | J     |

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION V

ESD Central Regional Laboratory  
Data Tracking Form for Contract Samples

Data Set No: \_\_\_\_\_ CERCLIS No: IN

Case No: 25143 Site Name Location: Himed Dump

Contractor or EPA Lab: DataChem Data User: SF

No. of Samples: 8 Date Sampled or Data Received: 12-23-96

Have Chain-of-Custody records been received? Yes  No

Have traffic reports or packing lists been received? Yes  No

If no, are traffic report or packing list numbers written on the chain-of-custody record? Yes  No

If no, which traffic report or packing list numbers are missing?  
\_\_\_\_\_  
\_\_\_\_\_

Are basic data forms in? Yes  No

No of samples claimed: 8 No. of samples received: 8

Received by: Lynette Burnett Date: 12-23-96

Received by LSSS: Lynette Burnett Date: 12-23-96

Review started: 1-10-97 Reviewer Signature: Allison C Hawey

Total time spent on review: 4.5 hrs Date review completed: 1-10-97

Copied by: Lynette Burnett Date: 1-23-97

Mailed to user by: Lynette Burnett Date: 1-23-97

**DATA USER:**

Please fill in the blanks below and return this form to:  
Sylvia Griffen, Data mgmt. Coordinator, Region V, 5SCRL

Data received by: \_\_\_\_\_ Date: \_\_\_\_\_

Data review received by: \_\_\_\_\_ Date: \_\_\_\_\_

- Inorganic Data Complete [ ] Suitable for Intended Purpose [ ]  if OK
- Organic Data Complete [ ] Suitable for Intended Purpose [ ]  if OK
- Dioxin Data Complete [ ] Suitable for Intended Purpose [ ]  if OK
- SAS Data Complete [ ] Suitable for Intended Purpose [ ]  if OK

**PROBLEMS:** Please indicate reasons why data are not suitable for your uses.  
\_\_\_\_\_  
\_\_\_\_\_

Received by Data Mgmt. Coordinator for Files. Data: \_\_\_\_\_

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION V

DATE: 12-26-96

SUBJECT: Review of Data  
Received for Review on Dec. 17, 1996

FROM: Stephen L. Ostrodka, Chief (SRT-4J) / L.F.  
Superfund Technical Support Section

TO: Data User: SF

We have reviewed the data by CADRE for the following case:

SITE NAME: Himco Dump (IN)

CASE NUMBER: 25143 SDG NUMBER: MEAKN2

Number and Type of Samples: 6 (Water)

Sample Numbers: MEAKN2-7

Laboratory: AATS Hrs. for Review: 2.0

Following are our findings:

*All data are usable with the qualifications described in the attached narrative.*

*L Finkelberg*

CC: Brian Freeman  
Region 5 TPO  
Mail Code: SM-5J

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION V

DATE:

SUBJECT: Review of Region V CLP Data  
Received for Review on Dec 17, 1996

FROM: Stephen L. Ostrodka, Chief (HSRL-5J)  
Superfund Technical Support Section

TO: Data User: SF

We have reviewed the data for the following case:

SITE NAME: Himco Dump (IN)

CASE NUMBER: 25143 SDG NUMBER: MEAKN2

Number and Type of Samples: 6 (water)

Sample Numbers: MEAKN2-7

Laboratory: AATS Hrs. for Review: 20 - 5<sup>1/2</sup> hrs

Following are our findings:

cc: Regional TPO  
Brian Freeman  
HSMC-5J

Case Number :25143  
Site Name: HINCO DUMP (IN)

Page 2 of 4  
SDG Number: MEAKN2  
Laboratory: AATS

**Below is a summary of the out-of-control audits and the possible effects on the data for this case:**

Six low level water samples, MEAKN2-7 were collected on 11-13-96. The lab received the samples on 11-14-96 in good condition. All samples were analyzed for metals. All samples were analyzed using CLP SOW ILM04.0 analysis procedure.

Mercury analysis was performed using a Cold Vapor AA Technique. The remaining inorganic analyses were performed using an Inductively Coupled Plasma-Atomic Emission Spectrometric procedure.

Reviewed By: B. L. Jones  
Date: 12-23-96

Case Number : 25143  
 Site Name: HINCO DUMP (IN)

SDG Number: MEAKN2  
 Laboratory: AATS

1. HOLDING TIME:

HOLDING TIME CRITERIA

INORGANICS

|         | -- Holding Time -- |          | ----- pH ----- |          |
|---------|--------------------|----------|----------------|----------|
|         | Primary            | Expanded | Primary        | Expanded |
| Metals  | 180                | 0        | 2.0            | 0.0      |
| Mercury | 28                 | 0        | 2.0            | 0.0      |
| Cyanide | 14                 | 0        | 12.0           | 0.0      |

No problems were found for this qualification.

2. CALIBRATIONS:

CALIBRATION CRITERIA

INORGANICS

Percent Recovery Limits

|         | --- Primary --- |        | -- Expanded -- |        |
|---------|-----------------|--------|----------------|--------|
|         | Low             | High   | Low            | High   |
| Cyanide | 85.00           | 115.00 | 70.00          | 130.00 |
| As      | 90.00           | 110.00 | 75.00          | 125.00 |
| ICP     | 90.00           | 110.00 | 75.00          | 125.00 |
| Mercury | 80.00           | 120.00 | 65.00          | 135.00 |

No problems were found for this qualification.

3. BLANKS:

LABORATORY BLANKS CRITERIA

DC-284: The following inorganic samples are associated with a blank concentration which is greater than the instrument detection limit (IDL). The sample concentration is also greater than the IDL and less than five times the blank concentration. Hits are qualified "J" and non-detects are not flagged.

Zinc

MEAKN2, MEAKN3, MEAKN4, MEAKN5, MEAKN6, MEAKN7

Reviewed By: B. L. Jones  
 Date: 12-23-16

Case Number :25143  
Site Name: HINCO DUMP (IN)

Page 4 of 4  
SDG Number: MEAKN2  
Laboratory: AATS

**4. MATRIX SPIKE/MATRIX SPIKE DUPLICATE AND LAB CONTROL SAMPLE:**

MATRIX SPIKE CRITERIA  
-----

INORGANICS  
-----

Percent Recovery Limits  
-----

|               |       |
|---------------|-------|
| Upper         | 125.0 |
| Lower         | 75.0  |
| Extreme lower | 30.0  |

No problems were found for this qualification.

**5. LABORATORY AND FIELD DUPLICATE**

No problems were found for this qualification.

**6. ICP ANALYSIS**

DC-295: The following inorganic samples are associated with an ICP serial dilution percent difference which is not in criteria. The serial dilution result is greater than the sample result, indicating a potential negative interference. All samples are flagged "J".

Sodium

MEAKN2, MEAKN3, MEAKN4, MEAKN5, MEAKN6, MEAKN7

**7. GFAA ANALYSIS**

No GFAA analysis was performed for in this case.

**8. SAMPLE RESULTS**

All data, except those qualified above, are acceptable.

Reviewed By: B. Ufer

Date: 12-23-76

TAL QUALIFIED SPREADSHEET

Case No: 25143  
SDG No: MEAKN2

Site: HIMCO DUMP (IN)  
Laboratory: SWL - TULSA

| EP. SAMPLE NUMBER:<br>REGIONAL SAMPLE NUMBER:<br>SAMPLE LOCATION:<br>SAMPLE TYPE:<br>MATRIX/ANALYSIS:<br>DILUTION FACTOR:<br>PERCENT SOLID: | MEAKN2<br>WT105A<br>Routine Sample<br>Water/LOW | MEAKN3<br>WT111A<br>Routine Sample<br>Water/LOW | MEAKN4<br>WT111A-D<br>Routine Sample<br>Water/LOW | MEAKN5<br>WT106A<br>Routine Sample<br>Water/LOW | MEAKN6<br>UNREADABLE<br>Routine Sample<br>Water/LOW |
|---|---|---|---|---|---|
| <b>INORG</b>  |   |   |   |   |   |
| Aluminum  | 17.0 U  | 280   | 267   | 50.8 U  | 17.0 U  |
| Antimony  | 3.0 U   | 3.0 U   | 3.0 U   | 3.0 U   | 3.0 U   |
| Arsenic   | 3.0 U   | 3.7   | 3.1   | 5.6 U   | 3.0 U   |
| Barium  | 5.4   | 105   | 107   | 101 U   | 1.0 U   |
| Beryllium   | 1.0 U   | 1.0 U   | 1.0 U   | 1.0 U   | 1.0 U   |
| Cadmium   | 1.0 U   | 1.0 U   | 1.0 U   | 1.0 U   | 1.0 U   |
| Calcium   | 38000   | 8160  | 8220  | 146000 U  | 10.0 U  |
| Chromium  | 1.0 U   | 1.8   | 1.5   | 1.0 U   | 1.0 U   |
| Cobalt  | 1.0 U   | 6.4   | 6.5   | 1.0 U   | 1.0 U   |
| Copper  | 1.0 U   | 3.3   | 3.0   | 1.0 U   | 1.0 U   |
| Iron  | 13.1  | 4470  | 4360  | 6080 U  | 10.0 U  |
| Lead  | 1.0 U   | 1.0 U   | 1.0 U   | 1.0 U   | 1.0 U   |
| Magnesium   | 10200   | 2980  | 2980  | 18100 U   | 22.0 U  |
| Manganese   | 5.0   | 335   | 333   | 394 U   | 1.0 U   |
| Mercury   | 0.20 U  | 0.20 U  | 0.20 U  | 0.20 U  | 0.20 U  |
| Nickel  | 1.0 U   | 7.2   | 7.2   | 1.8 U   | 1.0 U   |
| Potassium   | 1760  | 1600  | 1620  | 4280 U  | 41.0 U  |
| Selenium  | 4.0 U   | 4.0 U   | 4.0 U   | 4.0 U   | 4.0 U   |
| Silver  | 1.0 U   | 1.0 U   | 1.0 U   | 1.0 U   | 1.0 U   |
| Sodium  | 4460 J  | 3200 J  | 3270 J  | 25800 J   | 153 J   |
| Thallium  | 2.0 U   | 3.0   | 2.6   | 2.9 U   | 2.0 U   |
| Vanadium  | 1.0 U   | 2.4   | 2.4   | 1.0 U   | 1.0 U   |
| Zinc  | 3.6 J   | 22.2 J  | 21.2 J  | 2.9 J   | 2.5 J   |

Water units are reported in ug/L.  
Soil units are reported in mg/Kg.

TAL QUALIFIED SPREADSHEET

Case No: 25143  
SDG No: MEAKN2

Site: HIMCO DUMP (IN)  
Laboratory: SWL - TULSA

| EPA SAMPLE NUMBER:<br>REGIONAL SAMPLE NUMBER:<br>SAMPLE LOCATION:<br>SAMPLE TYPE:<br>MATRIX/ANALYSIS:<br>DILUTION FACTOR:<br>PERCENT SOLID: | MEAKN7<br>WT115-A<br>Routine Sample<br>Water/LOW | MEAKN7D<br>Duplicate Sample<br>Water/LOW | MEAKN7S<br>Matrix Spike<br>Water/LOW |  |  |
|---|--|--|--------------------------------------|--|--|
| INORG   |  |  |                                      |  |  |
| Aluminum  | 32.0   | 24.3                                     | 1980                                 |  |  |
| Antimony  | 3.0 U  | 3.0 U                                    | 484                                  |  |  |
| Arsenic   | 3.0 U  | 3.0 U                                    | 40.6                                 |  |  |
| Barium  | 33.3   | 32.6                                     | 1940                                 |  |  |
| Beryllium   | 1.0 U  | 1.0 U                                    | 46.9                                 |  |  |
| Cadmium   | 1.0 U  | 1.0 U                                    | 46.1                                 |  |  |
| Calcium   | 215000   | 211000                                   |                                      |  |  |
| Chromium  | 2.9  | 2.3                                      | 184                                  |  |  |
| Cobalt  | 1.6  | 1.4                                      | 406                                  |  |  |
| Copper  | 1.8  | 1.3                                      | 216                                  |  |  |
| Iron  | 2220   | 2180                                     | 3040                                 |  |  |
| Lead  | 1.0 U  | 1.0 U                                    | 18.4                                 |  |  |
| Magnesium   | 36000  | 35300                                    |                                      |  |  |
| Manganese   | 276  | 271                                      | 721                                  |  |  |
| Mercury   | 0.20 U   | 0.20 U                                   | 0.80                                 |  |  |
| Nickel  | 3.8  | 3.1                                      | 456                                  |  |  |
| Potassium   | 6520   | 6440                                     |                                      |  |  |
| Selenium  | 4.0 U  | 4.0 U                                    | 10.0                                 |  |  |
| Silver  | 1.0 U  | 1.0 U                                    | 47.4                                 |  |  |
| Sodium  | 33600  | 33100                                    |                                      |  |  |
| Thallium  | 2.2  | 2.0                                      | 46.2                                 |  |  |
| Vanadium  | 7.6  | 7.3                                      | 471                                  |  |  |
| Zinc  | 4.1 J  | 3.4                                      | 465                                  |  |  |
| Cyanide   |  |  |                                      |  |  |

Water units are reported in ug/L.  
Soil units are reported in mg/kg.

FILE NAME: MEAKN2 DATE: 12/20/96 TIME: 11:39

CRITERIA FILE: REG3193

DATA

| Original | |X| Qualified

QUALIFICATIONS PERFORMED

|                    |   |                             |
|--------------------|---|-----------------------------|
| Quantitation Limit | X | CRDL Standards              |
| Percent Moisture   | X | ICS                         |
| Holding Time       | X | LCS                         |
| Calibrations       | X | Duplicates                  |
| Matrix Spikes      | X | Furnace AA QC               |
| IPC                | X | ICP Serial Dilutions        |
| Internal Standards | X | Sample Results Verification |
| SMC/Surrogates     | X | Laboratory Blanks           |
| System Performance |   | Field QC                    |
| Sample Cleanup     |   |                             |

PRINT NON-DETECTS

| Yes | | No

PRINT REJECTED RESULTS

| Yes | | No

CADRE Data Qualifier Sheet

Qualifiers

Data Qualifier Definitions

- U            The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- J            The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.
- UJ          The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the action limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
- R            The data are unusable. (The compound may or may not be present)

Missing Contents Error Report

JDG NO: MEAKN2  
CASE NO: 25143

LABORATORY: SWL - TULSA  
AGENCY INPUT FILE: MEAKN2.IAS

| FIELD DESCRIPTION | CADRE KEY                                   |
|-------------------|---|
| Concentration     | Record Type 30 Line 179 Format REAL NUMERIC |
| Amount Added      | Record Type 30 Line 179 Format REAL NUMERIC |
| Concentration     | Record Type 30 Line 181 Format REAL NUMERIC |
| Amount Added      | Record Type 30 Line 181 Format REAL NUMERIC |
| Concentration     | Record Type 30 Line 183 Format REAL NUMERIC |
| Amount Added      | Record Type 30 Line 183 Format REAL NUMERIC |
| Concentration     | Record Type 30 Line 185 Format REAL NUMERIC |
| Amount Added      | Record Type 30 Line 185 Format REAL NUMERIC |
| Concentration     | Record Type 30 Line 187 Format REAL NUMERIC |
| Amount Added      | Record Type 30 Line 187 Format REAL NUMERIC |
| Concentration     | Record Type 30 Line 189 Format REAL NUMERIC |
| Amount Added      | Record Type 30 Line 189 Format REAL NUMERIC |
| Concentration     | Record Type 30 Line 191 Format REAL NUMERIC |
| Amount Added      | Record Type 30 Line 191 Format REAL NUMERIC |
| Concentration     | Record Type 30 Line 193 Format REAL NUMERIC |
| Amount Added      | Record Type 30 Line 193 Format REAL NUMERIC |
| Concentration     | Record Type 30 Line 195 Format REAL NUMERIC |
| Amount Added      | Record Type 30 Line 195 Format REAL NUMERIC |
| Concentration     | Record Type 30 Line 197 Format REAL NUMERIC |
| Amount Added      | Record Type 30 Line 197 Format REAL NUMERIC |
| Concentration     | Record Type 30 Line 199 Format REAL NUMERIC |
| Amount Added      | Record Type 30 Line 199 Format REAL NUMERIC |
| Concentration     | Record Type 30 Line 201 Format REAL NUMERIC |
| Amount Added      | Record Type 30 Line 201 Format REAL NUMERIC |
| Concentration     | Record Type 30 Line 203 Format REAL NUMERIC |
| Amount Added      | Record Type 30 Line 203 Format REAL NUMERIC |
| Concentration     | Record Type 30 Line 205 Format REAL NUMERIC |
| Amount Added      | Record Type 30 Line 205 Format REAL NUMERIC |
| Concentration     | Record Type 30 Line 207 Format REAL NUMERIC |
| Amount Added      | Record Type 30 Line 207 Format REAL NUMERIC |
| Concentration     | Record Type 30 Line 209 Format REAL NUMERIC |
| Amount Added      | Record Type 30 Line 209 Format REAL NUMERIC |
| Concentration     | Record Type 30 Line 211 Format REAL NUMERIC |
| Amount Added      | Record Type 30 Line 211 Format REAL NUMERIC |
| Concentration     | Record Type 30 Line 213 Format REAL NUMERIC |
| Amount Added      | Record Type 30 Line 213 Format REAL NUMERIC |
| Concentration     | Record Type 30 Line 215 Format REAL NUMERIC |
| Amount Added      | Record Type 30 Line 215 Format REAL NUMERIC |
| Concentration     | Record Type 30 Line 217 Format REAL NUMERIC |
| Amount Added      | Record Type 30 Line 217 Format REAL NUMERIC |
| Concentration     | Record Type 30 Line 219 Format REAL NUMERIC |
| Amount Added      | Record Type 30 Line 219 Format REAL NUMERIC |
| Concentration     | Record Type 30 Line 221 Format REAL NUMERIC |
| Amount Added      | Record Type 30 Line 221 Format REAL NUMERIC |
| Concentration     | Record Type 30 Line 226 Format REAL NUMERIC |
| Concentration     | Record Type 30 Line 228 Format REAL NUMERIC |
| Concentration     | Record Type 30 Line 230 Format REAL NUMERIC |

Missing Contents Error Report

SDG NO: MEAKN2  
CASE NO: 25143

LABORATORY: SWL - TULSA  
AGENCY INPUT FILE: MEAKN2.IAS

| FIELD DESCRIPTION | CADRE KEY                                    |
|-------------------|--|
| Concentration     | Record Type 30 Line 232 Format REAL NUMERIC  |
| Concentration     | Record Type 30 Line 234 Format REAL NUMERIC  |
| Concentration     | Record Type 30 Line 236 Format REAL NUMERIC  |
| Concentration     | Record Type 30 Line 238 Format REAL NUMERIC  |
| Concentration     | Record Type 30 Line 240 Format REAL NUMERIC  |
| Concentration     | Record Type 30 Line 242 Format REAL NUMERIC  |
| Concentration     | Record Type 30 Line 244 Format REAL NUMERIC  |
| Concentration     | Record Type 30 Line 246 Format REAL NUMERIC  |
| Concentration     | Record Type 30 Line 248 Format REAL NUMERIC  |
| Concentration     | Record Type 30 Line 250 Format REAL NUMERIC  |
| Concentration     | Record Type 30 Line 252 Format REAL NUMERIC  |
| Concentration     | Record Type 30 Line 254 Format REAL NUMERIC  |
| Concentration     | Record Type 30 Line 256 Format REAL NUMERIC  |
| Concentration     | Record Type 30 Line 258 Format REAL NUMERIC  |
| Concentration     | Record Type 30 Line 260 Format REAL NUMERIC  |
| Concentration     | Record Type 30 Line 262 Format REAL NUMERIC  |
| Concentration     | Record Type 30 Line 264 Format REAL NUMERIC  |
| Concentration     | Record Type 30 Line 266 Format REAL NUMERIC  |
| Concentration     | Record Type 30 Line 268 Format REAL NUMERIC  |
| Concentration     | Record Type 30 Line 1577 Format REAL NUMERIC |
| Amount Added      | Record Type 30 Line 1577 Format REAL NUMERIC |
| Concentration     | Record Type 30 Line 1582 Format REAL NUMERIC |
| Concentration     | Record Type 30 Line 1587 Format REAL NUMERIC |
| Concentration     | Record Type 30 Line 1592 Format REAL NUMERIC |
| Concentration     | Record Type 30 Line 1597 Format REAL NUMERIC |
| Concentration     | Record Type 30 Line 1602 Format REAL NUMERIC |

QC EXCEPTION SUMMARY REPORT

CASE \ SAS #: 25143  
 DATA SET: \_\_\_\_\_  
 LAB QC # MEAKN-2  
 DATE: 12-19-76

SITE: Hinco Dump (IN)  
 LAB: AATS  
 REVIEWED BY: B. Yuen

MATRIX: Water  
 CONCI: Low

WATER SAMPLE SPK: \_\_\_\_\_  
 WATER SAMPLE DUP: \_\_\_\_\_  
 SOIL SAMPLE SPK: \_\_\_\_\_  
 SOIL SAMPLE DUP: \_\_\_\_\_

| FORM #    |           | FORM 1        | FORM 2       | FORM 3      | FORM 3           | FORM 3          | FORM 4 | FORM 3        | FORM 4       | FORM 7 | FORM 7   | FORM 9                   | FORM 9              | FORM 4    | FORM 3      | FIELD | FIELD   | FIELD | FIELD   | COMMENTS |  |
|-----------|-----------|---------------|--------------|-------------|------------------|-----------------|--------|---------------|--------------|--------|----------|--------------------------|---------------------|-----------|-------------|-------|---------|-------|---------|----------|--|
| ELEMENT   | MOLD TIME | INITIAL CALIB | CONTIN CALIB | CALIB BLANK | PREP WATER BLANK | PREP SOIL BLANK | K'S SE | SOIL SPK'S SE | SOIL DUP RFD | ICE AQ | K'S SOIL | SERIAL DILUTION ADJUSTED | SERIAL DILUTION #BL | AQ DUP SE | AQ SPK'S SE | BLANK | DUP RFD | BLANK | DUP RFD |          |  |
| ALUMINUM  |           |               |              |             |                  |                 |        |               |              |        |          |                          |                     |           |             |       |         |       |         |          |  |
| ANTIMONY  |           |               |              |             |                  |                 |        |               |              |        |          |                          |                     |           |             |       |         |       |         |          |  |
| ARSENIC   |           |               |              |             |                  |                 |        |               |              |        |          |                          |                     |           |             |       |         |       |         |          |  |
| BARIUM    |           |               |              |             |                  |                 |        |               |              |        |          |                          |                     |           |             |       |         |       |         |          |  |
| BARYTIUM  |           |               |              |             |                  |                 |        |               |              |        |          |                          |                     |           |             |       |         |       |         |          |  |
| CADMIUM   |           |               |              |             |                  |                 |        |               |              |        |          |                          |                     |           |             |       |         |       |         |          |  |
| CALCIUM   |           |               |              |             |                  |                 |        |               |              |        |          |                          |                     |           |             |       |         |       |         |          |  |
| CHROMIUM  |           |               |              |             |                  |                 |        |               |              |        |          |                          |                     |           |             |       |         |       |         |          |  |
| COBALT    |           |               |              |             |                  |                 |        |               |              |        |          |                          |                     |           |             |       |         |       |         |          |  |
| COPPER    |           |               |              |             |                  |                 |        |               |              |        |          |                          |                     |           |             |       |         |       |         |          |  |
| IRON      |           |               |              |             |                  |                 |        |               |              |        |          |                          |                     |           |             |       |         |       |         |          |  |
| LEAD      |           |               |              |             |                  |                 |        |               |              |        |          |                          |                     |           |             |       |         |       |         |          |  |
| MAGNESIUM |           |               |              |             |                  |                 |        |               |              |        |          |                          |                     |           |             |       |         |       |         |          |  |
| MANGANESE |           |               |              |             |                  |                 |        |               |              |        |          |                          |                     |           |             |       |         |       |         |          |  |
| MERCURY   |           |               |              |             |                  |                 |        |               |              |        |          |                          |                     |           |             |       |         |       |         |          |  |
| NICKEL    |           |               |              |             |                  |                 |        |               |              |        |          |                          |                     |           |             |       |         |       |         |          |  |
| POTASSIUM |           |               |              |             |                  |                 |        |               |              |        |          |                          |                     |           |             |       |         |       |         |          |  |
| SELENIUM  |           |               |              |             |                  |                 |        |               |              |        |          |                          |                     |           |             |       |         |       |         |          |  |
| SILVER    |           |               |              |             |                  |                 |        |               |              |        |          |                          |                     |           |             |       |         |       |         |          |  |
| SODIUM    |           |               |              |             |                  |                 |        |               |              |        |          |                          |                     |           |             |       |         |       |         |          |  |
| THALLIUM  |           |               |              |             |                  |                 |        |               |              |        |          |                          |                     |           |             |       |         |       |         |          |  |
| TIN       |           |               |              |             |                  |                 |        |               |              |        |          |                          |                     |           |             |       |         |       |         |          |  |
| VANADIUM  |           |               |              |             |                  |                 |        |               |              |        |          |                          |                     |           |             |       |         |       |         |          |  |
| ZINC      |           |               |              |             |                  |                 |        |               |              |        |          |                          |                     |           |             |       |         |       |         |          |  |
| CYANIDE   |           |               |              |             |                  |                 |        |               |              |        |          |                          |                     |           |             |       |         |       |         |          |  |

10.3

5.44

## COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Name: AMERICAN\_ANALYTICAL\_\_\_\_\_ Contract: 68-D5-0141

Lab Code: AATS\_\_ Case No.: 25143 SAS No.: \_\_\_\_\_ SDG No.: MEAKN2

SOW No.: ILM04.0

| EPA Sample No. | Lab Sample ID |
|----------------|---------------|
| MEAKN2         | 27646.01      |
| MEAKN3         | 27646.02      |
| MEAKN4         | 27646.03      |
| MEAKN5         | 27646.04      |
| MEAKN6         | 27646.05      |
| MEAKN7         | 27646.06      |
| MEAKN7D        | 27646.06D     |
| MEAKN7S        | 27646.06S     |
|                |               |
|                |               |
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|                |               |
|                |               |

DEC 17

CHICAGO, ILLINOIS 60605

LAB.

Were ICP interelement corrections applied ? Yes/No YES

Were ICP background corrections applied ? Yes/No YES

If yes - were raw data generated before  
application of background corrections ? Yes/No NO\_

## Comments:

The serial dilution for sodium has a percent difference of 10.3 since this rounds down to 10, this does not need an "E" flag on the forms. This does however, appear on the textual defect report as needing an "E" flag.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the manager's designee, as verified by the following signature.

Signature: *(Handwritten Signature)* Name: Deborah J. Beree for...  
Jason D. RuckmanDate: December 13, 1996 Title: Inorganic Program Manager

U.S. EPA - CLP

1  
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MEAKN2 105k

Name: AMERICAN\_ANALYTICAL Contract: 68-D5-0141

Code: AATS Case No.: 25143 SAS No.: SDG No.: MEAKN2

Matrix (soil/water): WATER Lab Sample ID: 27646.01

Level (low/med): LOW Date Received: 11/15/96

Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L *ppb*

| CAS No.   | Analyte   | Concentration | C | Q | M  |
|-----------|-----------|---------------|---|---|----|
| 7429-90-5 | Aluminum  | 17.0          | U |   | P  |
| 7440-36-0 | Antimony  | 3.0           | U |   | P  |
| 7440-38-2 | Arsenic   | 3.0           | U |   | P  |
| 7440-39-3 | Barium    | 5.4           | B |   | P  |
| 7440-41-7 | Beryllium | 1.0           | U |   | P  |
| 7440-43-9 | Cadmium   | 1.0           | U |   | P  |
| 7440-70-2 | Calcium   | 38000         |   |   | P  |
| 7440-47-3 | Chromium  | 1.0           | U |   | P  |
| 7440-48-4 | Cobalt    | 1.0           | U |   | P  |
| 7440-50-8 | Copper    | 1.0           | U |   | P  |
| 7439-89-6 | Iron      | 13.1          | B |   | P  |
| 7439-92-1 | Lead      | 1.0           | U |   | P  |
| 7439-95-4 | Magnesium | 10300         |   |   | P  |
| 7439-96-5 | Manganese | 5.0           | B |   | P  |
| 7439-97-6 | Mercury   | 0.20          | U |   | CV |
| 7440-02-0 | Nickel    | 1.0           | U |   | P  |
| 7440-09-7 | Potassium | 1760          | B |   | P  |
| 7782-49-2 | Selenium  | 4.0           | U |   | P  |
| 7440-22-4 | Silver    | 1.0           | U |   | P  |
| 7440-23-5 | Sodium    | 4460          | B | E | P  |
| 7440-28-0 | Thallium  | 2.0           | U |   | P  |
| 7440-62-2 | Vanadium  | 1.0           | U |   | P  |
| 7440-66-6 | Zinc      | 3.6           | B |   | P  |

By 12-9-76

Color Before: COLORLESS Clarity Before: CLEAR Texture: \_\_\_\_\_

Color After: COLORLESS Clarity After: CLEAR Artifacts: \_\_\_\_\_

Comments:

U.S. EPA - CLP

1  
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MEAKN3

111A

Lab Name: AMERICAN\_ANALYTICAL\_\_\_\_\_ Contract: 68-D5-0141

Lab Code: AATS\_\_ Case No.: 25143\_ SAS No.: \_\_\_\_\_ SDG No.: MEAKN2

Matrix (soil/water): WATER Lab Sample ID: 27646.02

Level (low/med): LOW\_\_ Date Received: 11/15/96

% Solids: \_\_\_\_\_ 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L\_

| CAS No.   | Analyte   | Concentration | C | Q | M  |
|-----------|-----------|---------------|---|---|----|
| 7429-90-5 | Aluminum  | 280           | - |   | P  |
| 7440-36-0 | Antimony  | 3.0           | U |   | P  |
| 7440-38-2 | Arsenic   | 3.7           | B |   | P  |
| 7440-39-3 | Barium    | 105           | B |   | P  |
| 7440-41-7 | Beryllium | 1.0           | U |   | P  |
| 7440-43-9 | Cadmium   | 1.0           | U |   | P  |
| 7440-70-2 | Calcium   | 8160          |   |   | P  |
| 7440-47-3 | Chromium  | 1.7           | B |   | P  |
| 7440-48-4 | Cobalt    | 6.4           | B |   | P  |
| 7440-50-8 | Copper    | 3.3           | B |   | P  |
| 7439-89-6 | Iron      | 4470          |   |   | P  |
| 7439-92-1 | Lead      | 1.0           | U |   | P  |
| 7439-95-4 | Magnesium | 2980          | B |   | P  |
| 7439-96-5 | Manganese | 335           |   |   | P  |
| 7439-97-6 | Mercury   | 0.20          | U |   | CV |
| 7440-02-0 | Nickel    | 7.2           | B |   | P  |
| 7440-09-7 | Potassium | 1600          | B |   | P  |
| 7782-49-2 | Selenium  | 4.0           | U |   | P  |
| 7440-22-4 | Silver    | 1.0           | U |   | P  |
| 7440-23-5 | Sodium    | 3200          | B | E | P  |
| 7440-28-0 | Thallium  | 3.1           | B |   | P  |
| 7440-62-2 | Vanadium  | 2.4           | B |   | P  |
| 7440-66-6 | Zinc      | 22.2          |   |   | P  |

By 12-19-76

Color Before: COLORLESS Clarity Before: CLEAR\_\_ Texture: \_\_\_\_\_

Color After: COLORLESS Clarity After: CLEAR\_\_ Artifacts: \_\_\_\_\_

Comments:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

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1  
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MEAKN4 IIIAD

Name: AMERICAN ANALYTICAL Contract: 68-D5-0141

Code: AATS Case No.: 25143 SAS No.: SDG No.: MEAKN2

Matrix (soil/water): WATER Lab Sample ID: 27646.03

Level (low/med): LOW Date Received: 11/15/96

Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

| CAS No.   | Analyte   | Concentration | C | Q | M  |
|-----------|-----------|---------------|---|---|----|
| 7429-90-5 | Aluminum  | 267           | - |   | P  |
| 7440-36-0 | Antimony  | 3.0           | U |   | P  |
| 7440-38-2 | Arsenic   | 3.1           | B |   | P  |
| 7440-39-3 | Barium    | 107           | B |   | P  |
| 7440-41-7 | Beryllium | 1.0           | U |   | P  |
| 7440-43-9 | Cadmium   | 1.0           | U |   | P  |
| 7440-70-2 | Calcium   | 8220          |   |   | P  |
| 7440-47-3 | Chromium  | 1.5           | B |   | P  |
| 7440-48-4 | Cobalt    | 6.5           | B |   | P  |
| 7440-50-8 | Copper    | 3.0           | B |   | P  |
| 7439-89-6 | Iron      | 4360          |   |   | P  |
| 7439-92-1 | Lead      | 1.0           | U |   | P  |
| 7439-95-4 | Magnesium | 2980          | B |   | P  |
| 7439-96-5 | Manganese | 333           |   |   | P  |
| 7439-97-6 | Mercury   | 0.20          | U |   | CV |
| 7440-02-0 | Nickel    | 7.2           | B |   | P  |
| 7440-09-7 | Potassium | 1620          | B |   | P  |
| 7782-49-2 | Selenium  | 4.0           | U |   | P  |
| 7440-22-4 | Silver    | 1.0           | U |   | P  |
| 7440-23-5 | Sodium    | 3270          | B | E | P  |
| 7440-28-0 | Thallium  | 2.6           | B |   | P  |
| 7440-62-2 | Vanadium  | 2.3           | B |   | P  |
| 7440-66-6 | Zinc      | 21.2          |   |   | P  |
|           |           |               |   |   |    |
|           |           |               |   |   |    |

by 12-19-96

Color Before: COLORLESS Clarity Before: CLEAR Texture: \_\_\_\_\_

Color After: COLORLESS Clarity After: CLEAR Artifacts: \_\_\_\_\_

Comments:

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1  
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MEAKN5 *116A*

Lab Name: AMERICAN\_ANALYTICAL\_\_\_\_\_ Contract: 68-D5-0141

Lab Code: AATS\_\_\_\_\_ Case No.: 25143\_ SAS No.: \_\_\_\_\_ SDG No.: MEAKN2

Matrix (soil/water): WATER Lab Sample ID: 27646.04

Level (low/med): LOW\_\_\_\_\_ Date Received: 11/15/96

% Solids: \_\_\_\_\_0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L\_

| CAS No.   | Analyte   | Concentration | C | Q | M |
|-----------|-----------|---------------|---|---|---|
| 7429-90-5 | Aluminum  | 50.8          | B |   | P |
| 7440-36-0 | Antimony  | 3.0           | U |   | P |
| 7440-38-2 | Arsenic   | 5.6           | B |   | P |
| 7440-39-3 | Barium    | 101           | B |   | P |
| 7440-41-7 | Beryllium | 1.0           | U |   | P |
| 7440-43-9 | Cadmium   | 1.0           | U |   | P |
| 7440-70-2 | Calcium   | 146000        |   |   | P |
| 7440-47-3 | Chromium  | 1.0           | U |   | P |
| 7440-48-4 | Cobalt    | 1.0           | U |   | P |
| 7440-50-8 | Copper    | 1.0           | U |   | P |
| 7439-89-6 | Iron      | 6080          |   |   | P |
| 7439-92-1 | Lead      | 1.0           | U |   | P |
| 7439-95-4 | Magnesium | 18100         |   |   | P |
| 7439-96-5 | Manganese | 394           |   |   | P |
| 7439-97-6 | Mercury   | 0.20          | U |   | P |
| 7440-02-0 | Nickel    | 1.8           | B |   | P |
| 7440-09-7 | Potassium | 4280          | B |   | P |
| 7782-49-2 | Selenium  | 4.0           | U |   | P |
| 7440-22-4 | Silver    | 1.0           | U |   | P |
| 7440-23-5 | Sodium    | 25800         |   | E | P |
| 7440-28-0 | Thallium  | 2.9           | B |   | P |
| 7440-62-2 | Vanadium  | 1.0           | U |   | P |
| 7440-66-6 | Zinc      | 2.9           | B |   | P |

by 12-19-96

Color Before: COLORLESS Clarity Before: CLEAR\_ Texture: \_\_\_\_\_

Color After: COLORLESS Clarity After: CLEAR\_ Artifacts: \_\_\_\_\_

Comments:

1  
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MEAKN6 *Field Record*

b Name: AMERICAN\_ANALYTICAL\_\_\_\_\_ Contract: 68-D5-0141

b Code: AATS\_\_\_\_\_ Case No.: 25143\_ SAS No.: \_\_\_\_\_ SDG No.: MEAKN2

matrix (soil/water): WATER

Lab Sample ID: 27646.05

level (low/med): LOW\_\_

Date Received: 11/15/96

Solids: \_\_\_\_\_0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L\_

| CAS No.   | Analyte   | Concentration | C | Q | M |
|-----------|-----------|---------------|---|---|---|
| 7429-90-5 | Aluminum  | 17.0          | U |   | P |
| 7440-36-0 | Antimony  | 3.0           | U |   | P |
| 7440-38-2 | Arsenic   | 3.0           | U |   | P |
| 7440-39-3 | Barium    | 1.0           | U |   | P |
| 7440-41-7 | Beryllium | 1.0           | U |   | P |
| 7440-43-9 | Cadmium   | 1.0           | U |   | P |
| 7440-70-2 | Calcium   | 10.0          | U |   | P |
| 7440-47-3 | Chromium  | 1.0           | U |   | P |
| 7440-48-4 | Cobalt    | 1.0           | U |   | P |
| 7440-50-8 | Copper    | 1.0           | U |   | P |
| 7439-89-6 | Iron      | 10.0          | U |   | P |
| 7439-92-1 | Lead      | 1.0           | U |   | P |
| 7439-95-4 | Magnesium | 22.0          | U |   | P |
| 7439-96-5 | Manganese | 1.0           | U |   | P |
| 7439-97-6 | Mercury   | 0.20          | U |   | P |
| 7440-02-0 | Nickel    | 1.0           | U |   | P |
| 7440-09-7 | Potassium | 41.0          | U |   | P |
| 7782-49-2 | Selenium  | 4.0           | U |   | P |
| 7440-22-4 | Silver    | 1.0           | U |   | P |
| 7440-23-5 | Sodium    | 153           | B | E | P |
| 7440-28-0 | Thallium  | 2.0           | U |   | P |
| 7440-62-2 | Vanadium  | 1.0           | U |   | P |
| 7440-66-6 | Zinc      | 2.5           | B |   | P |
|           |           |               |   |   |   |
|           |           |               |   |   |   |
|           |           |               |   |   |   |

By 12-19-96

Color Before: COLORLESS Clarity Before: CLEAR\_ Texture: \_\_\_\_\_

Color After: COLORLESS Clarity After: CLEAR\_ Artifacts: \_\_\_\_\_

Comments: \_\_\_\_\_

U.S. EPA - CLP

1  
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MEAKN7 . 115A

Lab Name: AMERICAN\_ANALYTICAL\_\_\_\_\_ Contract: 68-D5-0141

Lab Code: AATS\_\_\_\_\_ Case No.: 25143\_ SAS No.: \_\_\_\_\_ SDG No.: MEAKN2

Matrix (soil/water): WATER Lab Sample ID: 27646.06

Level (low/med): LOW\_\_\_\_\_ Date Received: 11/15/96

% Solids: \_\_\_\_\_0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L\_

| CAS No.   | Analyte   | Concentration | C | Q | M  |
|-----------|-----------|---------------|---|---|----|
| 7429-90-5 | Aluminum  | 32.0          | B |   | P  |
| 7440-36-0 | Antimony  | 3.0           | U |   | P  |
| 7440-38-2 | Arsenic   | 3.0           | U |   | P  |
| 7440-39-3 | Barium    | 33.3          | B |   | P  |
| 7440-41-7 | Beryllium | 1.0           | U |   | P  |
| 7440-43-9 | Cadmium   | 1.0           | U |   | P  |
| 7440-70-2 | Calcium   | 215000        |   |   | P  |
| 7440-47-3 | Chromium  | 2.9           | B |   | P  |
| 7440-48-4 | Cobalt    | 1.6           | B |   | P  |
| 7440-50-8 | Copper    | 1.8           | B |   | P  |
| 7439-89-6 | Iron      | 2220          |   |   | P  |
| 7439-92-1 | Lead      | 1.0           | U |   | P  |
| 7439-95-4 | Magnesium | 36000         |   |   | P  |
| 7439-96-5 | Manganese | 276           |   |   | P  |
| 7439-97-6 | Mercury   | 0.20          | U |   | CV |
| 7440-02-0 | Nickel    | 3.8           | B |   | P  |
| 7440-09-7 | Potassium | 6520          |   |   | P  |
| 7782-49-2 | Selenium  | 4.0           | U |   | P  |
| 7440-22-4 | Silver    | 1.0           | U |   | P  |
| 7440-23-5 | Sodium    | 33600         |   | E | P  |
| 7440-28-0 | Thallium  | 2.2           | B |   | P  |
| 7440-62-2 | Vanadium  | 7.6           | B |   | P  |
| 7440-66-6 | Zinc      | 4.1           | B |   | P  |
|           |           |               |   |   |    |
|           |           |               |   |   |    |
|           |           |               |   |   |    |

By 12-19-96

Color Before: COLORLESS Clarity Before: CLEAR\_\_\_\_\_ Texture: \_\_\_\_\_

Color After: COLORLESS Clarity After: CLEAR\_\_\_\_\_ Artifacts: \_\_\_\_\_

Comments:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

U.S. EPA - CLP

3  
BLANKS

Name: AMERICAN\_ANALYTICAL\_\_\_\_\_ Contract: 68-D5-0141  
 Code: AATS\_\_\_\_\_ Case No.: 25143\_ SAS No.: \_\_\_\_\_ SDG No.: MEAKN2  
 Preparation Blank Matrix (soil/water): WATER  
 Preparation Blank Concentration Units (ug/L or mg/kg): UG/L\_

| Analyte   | Initial Calib. Blank (ug/L) |   | Continuing Calibration Blank (ug/L) |   |       |   |       |   | Preparation Blank |   | M  |
|-----------|-----------------------------|---|-------------------------------------|---|-------|---|-------|---|-------------------|---|----|
|           |                             | C | 1                                   | C | 2     | C | 3     | C |                   | C |    |
| Aluminum  | -17.7                       | B | 17.0                                | U | -21.0 | B | -20.2 | B | 17.00             | U | P  |
| Antimony  | 3.0                         | U | 3.0                                 | U | 3.0   | U | 3.0   | U | 3.00              | U | P  |
| Arsenic   | 3.0                         | U | 3.0                                 | U | 3.0   | U | 3.0   | U | 3.00              | U | P  |
| Barium    | 1.0                         | U | 1.0                                 | U | 1.0   | U | 1.0   | U | 1.00              | U | P  |
| Beryllium | 1.0                         | U | 1.0                                 | U | 1.0   | U | 1.0   | U | 1.00              | U | P  |
| Bismuth   | 1.0                         | U | 1.0                                 | U | 1.0   | U | 1.0   | U | 1.00              | U | P  |
| Calcium   | -18.9                       | B | -13.4                               | B | -18.2 | B | -15.2 | B | 10.93             | B | P  |
| Chromium  | 1.0                         | U | 1.0                                 | U | 1.0   | U | 1.0   | U | 1.00              | U | P  |
| Cobalt    | 1.0                         | U | 1.0                                 | U | 1.0   | U | 1.0   | U | 1.00              | U | P  |
| Copper    | 1.0                         | U | 1.0                                 | U | 1.0   | U | 1.0   | U | 1.00              | U | P  |
| Cadmium   | -13.5                       | B | 10.0                                | U | 10.0  | U | -11.9 | B | 10.00             | U | P  |
| Lead      | 1.0                         | U | 1.0                                 | U | 1.0   | U | 1.0   | U | 1.67              | B | P  |
| Magnesium | -23.8                       | B | 22.0                                | U | -22.3 | B | 22.0  | U | 22.00             | U | P  |
| Manganese | 1.0                         | U | 1.0                                 | U | 1.0   | U | 1.0   | U | 1.00              | U | P  |
| Mercury   | 0.2                         | U | 0.2                                 | U | 0.2   | U |       |   | 0.20              | U | CV |
| Nickel    | 1.0                         | U | 1.0                                 | U | 1.0   | U | 1.0   | U | 1.00              | U | P  |
| Potassium | 41.0                        | U | 41.0                                | U | 41.0  | U | 41.0  | U | 41.00             | U | P  |
| Selenium  | 4.0                         | U | 4.0                                 | U | 4.0   | U | 4.0   | U | 4.00              | U | P  |
| Silver    | 1.0                         | U | 1.0                                 | U | 1.0   | U | 1.0   | U | 1.00              | U | P  |
| Sodium    | 36.0                        | U | 36.0                                | U | 36.0  | U | 36.0  | U | 36.00             | U | P  |
| Thallium  | 2.0                         | U | 2.0                                 | U | 2.0   | U | 2.0   | U | 2.00              | U | P  |
| Vanadium  | 1.0                         | U | 1.0                                 | U | 1.0   | U | 1.0   | U | 1.00              | U | P  |
| Zinc      | 2.0                         | U | 2.0                                 | U | 2.0   | U | 2.0   | U | 5.44              | B | P  |

Lab Code: AATS  
 Matrix (soil/water): WATER  
 % Solids for Sample: 0.0  
 Case No.: 25143  
 Contract: 68-D5-014  
 SAS No.:

Concentration Units (ug/L or mg/kg dry weight): ug/L

| Analyte   | Control Limit %R | Spiked Sample Result (SSR) | Sample Result (SR) | Spike Added (SA) | Level |
|-----------|------------------|----------------------------|--------------------|------------------|-------|
| Aluminum  | 75-125           | 1984.8690                  | 32.0390            | 2000.00          |       |
| Antimony  | 75-125           | 483.9300                   | 3.0000             | 500.00           |       |
| Arsenic   | 75-125           | 40.5920                    | 3.0000             | 500.00           |       |
| Barium    | 75-125           | 1935.1380                  | 33.2710            | 40.00            |       |
| Beryllium | 75-125           | 46.8610                    | 1.0000             | 2000.00          |       |
| Cadmium   | 75-125           | 46.1360                    | 1.0000             | 50.00            |       |
| Calcium   | 75-125           | 183.9880                   | 2.9120             | 50.00            |       |
| Chromium  | 75-125           | 406.2420                   | 1.6090             | 200.00           |       |
| Cobalt    | 75-125           | 216.4470                   | 1.7940             | 500.00           |       |
| Copper    | 75-125           | 3040.0530                  | 1.0000             | 250.00           |       |
| Lead      | 75-125           | 18.4390                    | 1.0000             | 1000.00          |       |
| Magnesium | 75-125           | 721.1280                   | 276.0760           | 20.00            |       |
| Manganese | 75-125           | 0.8030                     | 0.2000             | 500.00           |       |
| Nickel    | 75-125           | 455.8870                   | 3.7530             | 250.00           |       |
| Potassium | 75-125           | 47.4090                    | 1.0000             | 500.00           |       |
| Selenium  | 75-125           | 9.9930                     | 4.0000             | 10.00            |       |
| Silver    | 75-125           | 471.1970                   | 7.5970             | 500.00           |       |
| Sodium    | 75-125           | 465.3190                   | 4.1190             | 500.00           |       |
| Thallium  | 75-125           |                            |                    |                  |       |
| Vanadium  | 75-125           |                            |                    |                  |       |
| Zinc      | 75-125           |                            |                    |                  |       |

Comments:

FORM V (Part 1) - IN

ILM04.0

Lab Code: AATS  
 Matrix (soil/water): WATER  
 % Solids for Sample: 0.0  
 Case No.: 25143  
 Contract: 68-D5-0141  
 SAS No.:

| Analyte   | Control Limit | Concentration Units (ug/L or mg/kg dry weight) : UG |               | % Solids for Du | Level ( |
|-----------|---------------|---|---------------|-----------------|---------|
|           |               | Sample (S)  | Duplicate (D) |                 |         |
| Aluminum  |               | 32.0390   | 24.3280       | B               | RP.     |
| Antimony  |               | 3.0000  | 3.0000        | U               | 27.     |
| Arsenic   |               | 3.0000  | 3.0000        | U               |         |
| Barium    |               | 33.2710   | 32.6390       | U               |         |
| Beryllium |               | 1.0000  | 1.0000        | B               |         |
| Cadmium   |               | 1.0000  | 1.0000        | U               |         |
| Calcium   |               | 2.9120  | 1.0000        | B               |         |
| Chromium  |               | 1.6090  | 1.0000        | B               |         |
| Cobalt    |               | 1.7940  | 2.2720        | B               |         |
| Copper    |               | 21518.1560  | 1.3470        | B               | 1.9     |
| Iron      |               | 1.0000  | 1.3420        | B               | 24.7    |
| Lead      |               | 1.0000  | 1.0000        | U               | 17.7    |
| Magnesium |               | 276.0760  | 28.6050       | U               | 28.8    |
| Manganese |               | 0.2000  | 0.2000        | U               | 1.8     |
| Mercury   |               | 3.7530  | 3.1140        | B               | 1.8     |
| Nickel    |               | 6517.5020   | 4.4520        | U               | 1.2     |
| Potassium |               | 4.0000  | 1.0000        | U               | 3.6     |
| Selenium  |               | 1.0000  | 4.0000        | U               | 1.2     |
| Silver    | 5000.0        | 33606.9920  | 6441.4520     | U               | 1.2     |
| Sodium    |               | 2.1800  | 33083.4140    | U               | 1.6     |
| Thallium  |               | 7.5970  | 7.3170        | B               | 3.8     |
| Vanadium  |               | 4.1190  | 3.3860        | B               | 19.5    |
| Zinc      |               |   |               |                 |         |

FORM VI - IN

ILM04.0

U.S. EPA - CLP

9  
ICP SERIAL DILUTION

EPA SAMPLE NO.

MEAKN2L

Lab Name: AMERICAN\_ANALYTICAL\_\_\_\_\_ Contract: 68-D5-0141

Lab Code: AATS\_\_\_\_\_ Case No.: 25143\_ SAS No.: \_\_\_\_\_ SDG No.: MEAKN2

Matrix (soil/water): WATER Level (low/med): LOW\_\_

Concentration Units: ug/L

| Analyte   | Initial Sample Result (I) | C | Serial Dilution Result (S) | C | % Difference | Q | M  |
|-----------|---------------------------|---|----------------------------|---|--------------|---|----|
| Aluminum  | 17.00                     | U | 85.00                      | U |              |   | P  |
| Antimony  | 3.00                      | U | 15.00                      | U |              |   | P  |
| Arsenic   | 3.00                      | U | 15.00                      | U |              |   | P  |
| Barium    | 5.41                      | B | 5.00                       | U | 100.0        |   | P  |
| Beryllium | 1.00                      | U | 5.00                       | U |              |   | P  |
| Cadmium   | 1.00                      | U | 5.00                       | U |              |   | P  |
| Calcium   | 38046.19                  |   | 36023.50                   |   | 5.3          |   | P  |
| Chromium  | 1.00                      | U | 5.00                       | U |              |   | P  |
| Cobalt    | 1.00                      | U | 5.00                       | U |              |   | P  |
| Copper    | 1.00                      | U | 5.00                       | U |              |   | P  |
| Iron      | 13.07                     | B | 50.00                      | U | 100.0        |   | P  |
| Lead      | 1.00                      | U | 5.00                       | U |              |   | P  |
| Magnesium | 10258.92                  |   | 9414.21                    | B | 8.2          |   | P  |
| Manganese | 5.02                      | B | 5.33                       | B | 6.2          |   | P  |
| Mercury   |                           |   |                            |   |              |   | NR |
| Nickel    | 1.00                      | U | 5.00                       | U |              |   | P  |
| Potassium | 1755.48                   | B | 1934.54                    | B | 10.2         |   | P  |
| Selenium  | 4.00                      | U | 20.00                      | U |              |   | P  |
| Silver    | 1.00                      | U | 5.00                       | U |              |   | P  |
| Sodium    | 4459.33                   | B | 4919.11                    | B | 10.3         |   | P  |
| Thallium  | 2.00                      | U | 10.00                      | U |              |   | P  |
| Vanadium  | 1.00                      | U | 5.00                       | U |              |   | P  |
| Zinc      | 3.62                      | B | 10.00                      | U | 100.0        |   | P  |

By 12-19-9

10  
Instrument Detection Limits (Quarterly)

Lab Name: AMERICAN\_ANALYTICAL\_\_\_\_\_ Contract: 68-D5-0141  
 Lab Code: AATS\_\_\_\_\_ Case No.: 25143\_ SAS No.: \_\_\_\_\_ SDG No.: MEAKN2  
 P ID Number: TJA\_ET2\_\_\_\_\_ Date: 10/03/96  
 Name AA ID Number : \_\_\_\_\_  
 Furnace AA ID Number : \_\_\_\_\_

| Analyte   | Wave-length (nm) | Back-ground | CRDL (ug/L) | IDL (ug/L) | M  |
|-----------|------------------|-------------|-------------|------------|----|
| Aluminum  | 308.22           |             | 200         | 17.0       | P  |
| Antimony  | 206.83           |             | 60          | 3.0        | P  |
| Arsenic   | 189.04           |             | 10          | 3.0        | P  |
| Barium    | 493.41           |             | 200         | 1.0        | P  |
| Beryllium | 313.04           |             | 5           | 1.0        | P  |
| Cadmium   | 226.50           |             | 5           | 1.0        | P  |
| Calcium   | 317.93           |             | 5000        | 10.0       | P  |
| Chromium  | 267.72           |             | 10          | 1.0        | P  |
| Cobalt    | 228.61           |             | 50          | 1.0        | P  |
| Copper    | 324.75           |             | 25          | 1.0        | P  |
| Iron      | 271.44           |             | 100         | 10.0       | P  |
| Lead      | 220.35           |             | 3           | 1.0        | P  |
| Magnesium | 279.08           |             | 5000        | 22.0       | P  |
| Manganese | 257.61           |             | 15          | 1.0        | P  |
| Mercury   |                  |             | 0.2         |            | NR |
| Nickel    | 231.60           |             | 40          | 1.0        | P  |
| Potassium | 766.49           |             | 5000        | 41.0       | P  |
| Selenium  | 196.02           |             | 5           | 4.0        | P  |
| Silver    | 328.07           |             | 10          | 1.0        | P  |
| Sodium    | 588.99           |             | 5000        | 36.0       | P  |
| Thallium  | 190.68           |             | 10          | 2.0        | P  |
| Vanadium  | 292.40           |             | 50          | 1.0        | P  |
| Zinc      | 213.86           |             | 20          | 2.0        | P  |

Comments:  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

10  
Instrument Detection Limits (Quarterly)

Lab Name: AMERICAN\_ANALYTICAL\_\_\_\_\_ Contract: 68-D5-0141  
 Lab Code: AATS\_\_\_\_\_ Case No.: 25143\_\_\_\_\_ SAS No.: \_\_\_\_\_ SDG No.: MEAKN2  
 ICP ID Number: \_\_\_\_\_ Date: 10/03/96  
 Flame AA ID Number : PS200B\_\_\_\_\_   
 Furnace AA ID Number : \_\_\_\_\_

| Analyte   | Wave-length (nm) | Back-ground | CRDL (ug/L) | IDL (ug/L) | M  |
|-----------|------------------|-------------|-------------|------------|----|
| Aluminum  |                  |             | 200         |            | NR |
| Antimony  |                  |             | 60          |            | NR |
| Arsenic   |                  |             | 10          |            | NR |
| Barium    |                  |             | 200         |            | NR |
| Beryllium |                  |             | 5           |            | NR |
| Cadmium   |                  |             | 5           |            | NR |
| Calcium   |                  |             | 5000        |            | NR |
| Chromium  |                  |             | 10          |            | NR |
| Cobalt    |                  |             | 50          |            | NR |
| Copper    |                  |             | 25          |            | NR |
| Iron      |                  |             | 100         |            | NR |
| Lead      |                  |             | 3           |            | NR |
| Magnesium |                  |             | 5000        |            | NR |
| Manganese |                  |             | 15          |            | NR |
| Mercury   | 254.00           |             | 0.2         | 0.2        | CV |
| Nickel    |                  |             | 40          |            | NR |
| Potassium |                  |             | 5000        |            | NR |
| Selenium  |                  |             | 5           |            | NR |
| Silver    |                  |             | 10          |            | NR |
| Sodium    |                  |             | 5000        |            | NR |
| Thallium  |                  |             | 10          |            | NR |
| Vanadium  |                  |             | 50          |            | NR |
| Zinc      |                  |             | 20          |            | NR |

Comments:

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION V

ESD Central Regional Laboratory  
Data Tracking Form for Contract Samples

Data Set No: \_\_\_\_\_ CERCLIS No: IN  
Case No: 25143 Site Name Location: Homed Dump  
Contractor or EPA Lab: AATS Data User: SF  
No. of Samples: 6 Date Sampled or Data Received: 12-17-96

Have Chain-of-Custody records been received? Yes  No   
Have traffic reports or packing lists been received? Yes  No   
If no, are traffic report or packing list numbers written on the chain-of-custody record? Yes  No   
If no, which traffic report or packing list numbers are missing?

\_\_\_\_\_  
\_\_\_\_\_

Are basic data forms in? Yes  No   
No of samples claimed: 6 No. of samples received: 6

Received by: Lynette Burnett Date: 12-17-96

Received by LSSS: Lynette Burnett Date: 12-17-96

Review started: 12-~~20~~<sup>19</sup>-96 Reviewer Signature: B. Griffin

Total time spent on review: 2 Date review completed: 12-~~18~~<sup>19</sup>-96

Copied by: Lynette Burnett Date: 12-29-96

Mailed to user by: Lynette Burnett Date: 12-29-96

**DATA USER:**

Please fill in the blanks below and return this form to:  
Sylvia Griffen, Data mgmt. Coordinator, Region V, SSCRL

Data received by: \_\_\_\_\_ Date: \_\_\_\_\_

Data review received by: \_\_\_\_\_ Date: \_\_\_\_\_

Inorganic Data Complete [ ] Suitable for Intended Purpose [ ]  if OK  
Organic Data Complete [ ] Suitable for Intended Purpose [ ]  if OK  
Dioxin Data Complete [ ] Suitable for Intended Purpose [ ]  if OK  
SAS Data Complete [ ] Suitable for Intended Purpose [ ]  if OK

**PROBLEMS:** Please indicate reasons why data are not suitable for your uses.

\_\_\_\_\_

Received by Data Mgmt. Coordinator for Files. Data: \_\_\_\_\_



United States Environmental Protection Agency  
Contract Laboratory Program

**Inorganic Traffic Report  
& Chain of Custody Record**  
(For Inorganic CLP Analysis)

SAS No.  
(if applicable)

Case No.

25143

|                             |              |   |                        |  |                   |   |   |
|-----------------------------|--------------|---|------------------------|--|-------------------|---|---|
| 1. Project Code<br>99       | Account Code | 2. Region No.<br>5  | Sampling Co.<br>US EPA | 4. Date Shipped<br>11/14/96  | Carrier<br>Fed Ex | 6. Matrix<br>(Enter in Column A)<br>1. Surface Water<br>2. Ground Water<br>3. Leachate<br>4. Field QC<br>5. Soil/Sediment<br>6. Oil (High only)<br>7. Waste (High only)<br>8. Other (specify in Column A) | 7. Preservative<br>(Enter in Column D)<br>1. HCl<br>2. HNO3<br>3. NaOH<br>4. H2SO4<br>5. K2CR2O7<br>6. Ice only<br>7. Other (specify in Column D)<br>N. Not preserved |
| Regional Information<br>FAX |              | 3. Sampler (Name)<br>Luanne Vanderpool  |                        | Airbill Number<br>2854365146   |                   |   |   |
| Non-Superfund Program       |              | 3. Sampler Signature<br>L Vanderpool  |                        | 5. Ship To<br>American Analytical Tech Serv.<br>1700 W Albany, Suite C<br>Broken Arrow, OK 74012<br>ATTN: Chuck Hoover |                   |   |   |
| Site Name<br>HIMCO DUMP     |              | 3. Purpose*<br>Lead: <input checked="" type="checkbox"/> SF, <input type="checkbox"/> PRP, <input type="checkbox"/> ST, <input type="checkbox"/> FED<br>EPA Action: <input type="checkbox"/> CLEM, <input type="checkbox"/> PA, <input type="checkbox"/> REM, <input type="checkbox"/> RI, <input type="checkbox"/> SI, <input type="checkbox"/> ESI<br>Long Term Action: <input checked="" type="checkbox"/> FS, <input type="checkbox"/> RD, <input type="checkbox"/> RA, <input type="checkbox"/> O&M, <input type="checkbox"/> NPLD |                        |  |                   |   |   |
| City, State<br>Elkhart, IN  |              | Site Spill ID<br>43   |                        |  |                   |   |   |

| CLP Sample Numbers (from labels) | A Matrix (from Box 6)<br>Other: | B Conc. Low Med High | C Sample Type: Comp./ Grab | D Preservative (from Box 7)<br>Other: | E - RAS Analysis |              |         |         |          |    |          | F Regional Specific Tracking Number or Tag Numbers | G Station Location Identifier | H Mo/Day/Year/Time Sample Collection | I Corresponding CLP Organic Sample No. | J Sampler Initials | K Field QC Qualifier<br>B = Blank, S = Spike, D = Duplicate, H = Homate, PE = Perkin Elmer, -- = Not a QC Sample |
|----------------------------------|---------------------------------|----------------------|----------------------------|---------------------------------------|------------------|--------------|---------|---------|----------|----|----------|--|-------------------------------|--------------------------------------|--|--------------------|--|
|                                  |                                 |                      |                            |                                       | Diss Metals      | Total Metals | Cyanide | NO2/NO3 | Fluoride | PH | Conduct. |  |                               |                                      |  |                    |  |
| MEAKN2                           | 2                               | L                    | G                          | 2                                     | ✓                |              |         |         |          |    |          | 5-153684   | WT105A                        | 11/13/96/1330                        | EAXX9                                  | XU                 |  |
| MEAKN3                           | 2                               | L                    | G                          | 2                                     | ✓                |              |         |         |          |    |          | 5-153689   | WT111A                        | 11/13/96/1330                        | EAXY0                                  | XU                 |  |
| MEAKN4                           | 2                               | L                    | G                          | 2                                     | ✓                |              |         |         |          |    |          | 5-153694   | WTMA-D                        | 11/13/96/1330                        | EAXY1                                  | XU                 | D  |
| MEAKN5                           | 2                               | L                    | G                          | 2                                     | ✓                |              |         |         |          |    |          | 5-153699   | WT106A                        | 11/13/96/144A                        | EAXY2                                  | XU                 |  |
| MEAKN6                           | 4                               | L                    | G                          | 2                                     | ✓                |              |         |         |          |    |          | 5-153704   | Field Blank                   | 11/13/96/1530                        | EAXY3                                  | XU                 | B  |
| MEAKN7                           | 2                               | L                    | G                          | 2                                     | ✓                |              |         |         |          |    |          | 5-153715-16  | WT115A                        | 11/13/96/1535                        | EAXY4                                  | XU                 |  |

|  |                |  |                               |  |
|--|----------------|--|-------------------------------|--|
| Shipment for Case Complete? (Y/N)<br>Y | Page<br>1 of 1 | Sample(s) to be Used for Laboratory QC<br>MEAKN7 | Additional Sampler Signatures | Chain of Custody Seal Number(s)<br>47334 & 47335 |
|--|----------------|--|-------------------------------|--|

**CHAIN OF CUSTODY RECORD**

|   |                              |   |                              |             |                                  |
|---|------------------------------|---|------------------------------|-------------|----------------------------------|
| Relinquished by: (Signature)<br>Luanne Vanderpool | Date / Time<br>11/14/96 1600 | Received by: (Signature)                | Relinquished by: (Signature) | Date / Time | Received by: (Signature)         |
| Relinquished by: (Signature)                      | Date / Time                  | Received by: (Signature)                | Relinquished by: (Signature) | Date / Time | Received by: (Signature)         |
| Relinquished by: (Signature)                      | Date / Time                  | Received for Laboratory by: (Signature) | Date / Time                  | Remarks     | Is custody seal intact? Y/N/none |

DISTRIBUTION:

Green - Region Copy  
White - Lab Copy for Return to Region

Pink - SMO Copy  
Yellow - Lab Copy for Return to SMO

EPA Form 9110-1

SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS  
SEE REVERSE FOR PURPOSE CODE DEFINITIONS

10 11 91



United States Environmental Protection Agency  
Contract Laboratory Program

Inorganic Traffic Report  
& Chain of Custody Record  
(For Inorganic CLP Analysis)

SAS No.  
(if applicable)

Case No.

25143

|                             |              |  |                        |  |                   |   |   |
|-----------------------------|--------------|--|------------------------|--|-------------------|---|---|
| 1. Project Code<br>9        | Account Code | 2. Region No.<br>5   | Sampling Co.<br>US EPA | 4. Date Shipped<br>11/14/96  | Carrier<br>Fed Ex | 6. Matrix<br>(Enter in Column A)<br><br>1. Surface Water<br>2. Ground Water<br>3. Leachate<br>4. Field QC<br>5. Soil/Sediment<br>6. Oil (High only)<br>7. Waste (High only)<br>8. Other (specify in Column A) | 7. Preservative<br>(Enter in Column D)<br><br>1. HCl<br>2. HNO3<br>3. NaOH<br>4. H2SO4<br>5. K2CR2O7<br>6. Ice only<br>7. Other (specify in Column D)<br>N. Not preserved |
| Regional Information<br>FAX |              | Sampler (Name)<br>Luanne Vanderpool  |                        | Airbill Number<br>2854365146   |                   |   |   |
| Non-Superfund Program       |              | Sampler Signature<br>L Vanderpool  |                        | 5. Ship To<br>American Analytical Tech Serv.<br>1700 W Albany, Suite C<br>Broken Arrow, OK 74012<br>ATTN: Chuck Hoover |                   |   |   |
| Site Name<br>HIMCO DUMP     |              | 3. Purpose<br>Lead: <input checked="" type="checkbox"/> SF, <input type="checkbox"/> PRP, <input type="checkbox"/> ST, <input type="checkbox"/> FED<br>Early Action: <input type="checkbox"/> CLEM, <input type="checkbox"/> PA, <input type="checkbox"/> REM, <input type="checkbox"/> RI, <input type="checkbox"/> SI, <input type="checkbox"/> ESI<br>Long Term Action: <input checked="" type="checkbox"/> FS, <input type="checkbox"/> RD, <input type="checkbox"/> RA, <input type="checkbox"/> O&M, <input type="checkbox"/> NPLD |                        |  |                   |   |   |
| City, State<br>Elkhart, IN  |              | Site Spill ID<br>43  |                        |  |                   |   |   |

| CLP Sample Numbers (from labels) | A Matrix (from Box 6)<br>Other | B Conc. Low Med High | C Sample Type: Comp/Grab | D Preservative (from Box 7)<br>Other | E - RAS Analysis |              |         |         |          |    |         | F Regional Specific Tracking Number or Tag Numbers | G Station Location Identifier | H Mo/Day/Year/Time Sample Collection | I Corresponding CLP Organic Sample No. | J Sampler Initials | K Field QC Qualifier<br>B = Blank S = Spike<br>D = Duplicate R = Rinse<br>PE = Perium Eval<br>- = Not a QC Sample |
|----------------------------------|--------------------------------|----------------------|--------------------------|--------------------------------------|------------------|--------------|---------|---------|----------|----|---------|--|-------------------------------|--------------------------------------|--|--------------------|---|
|                                  |                                |                      |                          |                                      | Des Metals       | Total Metals | Cyanide | NO2/NO3 | Fluoride | pH | Conduct |  |                               |                                      |  |                    |   |
| MEAKN2                           | 2                              | L                    | G                        | 2                                    | ✓                |              |         |         |          |    |         | 5-153684   | WT105A                        | 11/13/96/1330                        | EAXX9                                  | XU                 |   |
| MEAKN3                           | 2                              | L                    | G                        | 2                                    | ✓                |              |         |         |          |    |         | 5-153689   | WT111A                        | 11/13/96/1330                        | EAXY0                                  | XU                 |   |
| MEAKN4                           | 2                              | L                    | G                        | 2                                    | ✓                |              |         |         |          |    |         | 5-153694   | WT11A-D                       | 11/13/96/1330                        | EAXY1                                  | XU D               |   |
| MEAKN5                           | 2                              | L                    | G                        | 2                                    | ✓                |              |         |         |          |    |         | 5-153699   | WT106A                        | 11/13/96/1447                        | EAXY2                                  | XU                 |   |
| MEAKN6                           | 4                              | L                    | G                        | 2                                    | ✓                |              |         |         |          |    |         | 5-153704   | Field Blank                   | 11/13/96/1530                        | EAXY3                                  | XU B               |   |
| MEAKN7                           | 2                              | L                    | G                        | 2                                    | ✓                |              |         |         |          |    |         | 5-153715-16  | WT115A                        | 11/13/96/1535                        | EAXY4                                  | XU                 |   |

|  |                |  |                               |  |
|--|----------------|--|-------------------------------|--|
| Shipment for Case Complete? (Y/N)<br>Y | Page<br>1 of 1 | Sample(s) to be Used for Laboratory QC<br>MEAKN7 | Additional Sampler Signatures | Chain of Custody Seal Number(s)<br>47334 & 47335 |
|--|----------------|--|-------------------------------|--|

CHAIN OF CUSTODY RECORD

|   |                              |   |                              |             |                                  |
|---|------------------------------|---|------------------------------|-------------|----------------------------------|
| Relinquished by: (Signature)<br>Luanne Vanderpool | Date / Time<br>11/14/96 1600 | Received by: (Signature)                | Relinquished by: (Signature) | Date / Time | Received by: (Signature)         |
| Relinquished by: (Signature)                      | Date / Time                  | Received by: (Signature)                | Relinquished by: (Signature) | Date / Time | Received by: (Signature)         |
| Relinquished by: (Signature)                      | Date / Time                  | Received for Laboratory by: (Signature) | Date / Time                  | Remarks     | Is custody seal intact? Y/N/none |

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A2-012-5 REV 3/93



United States Environmental Protection Agency  
Contract Laboratory Program

### Organic Traffic Report & Chain of Custody Record (For Organic CLP Analysis)

Case No.

25743

|   |              |   |                              |  |                          |  |  |
|---|--------------|---|------------------------------|--|--------------------------|--|--|
| 1. Project Code<br><b>97</b>                                | Account Code | 2. Region No.<br><b>5</b>   | Sampling Co.<br><b>USEPA</b> | 4. Date Shipped<br><b>11/14/96</b>                               | Carrier<br><b>Fed Ex</b> | 6. Matrix (Enter in Column A)<br><br>1. Surface Water<br>2. Ground Water<br>3. Leachate<br>4. Field QC<br>5. Soil/Sediment<br>6. Oil (High only)<br>7. Waste (High only)<br>8. Other (Specify in Column A) | 7. Preservative (Enter in Column D)<br><br>1. HCl<br>2. HNO3<br>3. NaHSO4<br>4. H2SO4<br>5. Ice only<br>6. Other (Specify in Column D)<br>N. Not preserved |
| Regional Information<br><b>FAX</b><br>Non-Superfund Program |              | Sampler (Name)<br><b>Lianne Vanderpool</b>  |                              | Airbill Number<br><b>2854365113</b>                              |                          |  |  |
| Site Name<br><b>HIMCO Dump</b>                              |              | Sampler Signature<br><i>Lianne Vanderpool</i>   |                              | 5. Ship To<br><b>Datachem Laboratories Inc</b>                   |                          |  |  |
| City, State<br><b>Elkhart, IN</b>                           |              | 3. Purpose:<br>Early Action: <input type="checkbox"/> CLEM, <input type="checkbox"/> PA, <input type="checkbox"/> REM, <input type="checkbox"/> RI, <input type="checkbox"/> SI, <input type="checkbox"/> ESI<br>Long Term Action: <input checked="" type="checkbox"/> FS, <input checked="" type="checkbox"/> RD, <input type="checkbox"/> RA, <input type="checkbox"/> O&M, <input type="checkbox"/> NPLD |                              | 960 W Lemay Dr<br>Salt Lake City, UT 84123<br>ATTN: Scott Swalls |                          |  |  |
| Site Spill ID<br><b>47</b>                                  |              | Lead: <input checked="" type="checkbox"/> SF, <input type="checkbox"/> PRP, <input type="checkbox"/> ST, <input type="checkbox"/> FED   |                              |  |                          |  |  |

| CLP Sample Numbers (from labels) | A Matrix (from Box 6)<br>Other | B Conc. Low Med High | C Sample Type: Comp Grab | D Preservative (from Box 7)<br>Other | E RAS Analysis |     |                      | F Regional Specific Tracking Number or Tag Numbers | G Station Location Identifier | H Mo/Day/Year/Time Sample Collection | I Corresponding CLP Inorganic Sample No. | J Sampler Initials | K Field QC Qualifier<br>B - Blank S - Spike<br>D - Duplicate R - Retest<br>PE - Perform Eval<br>- = Not a QC Sample |
|----------------------------------|--------------------------------|----------------------|--------------------------|--------------------------------------|----------------|-----|----------------------|--|-------------------------------|--------------------------------------|--|--------------------|---|
|                                  |                                |                      |                          |                                      | VOA            | BNA | High only<br>ARO/TOX |  |                               |                                      |  |                    |   |
| EA XX8                           | 4                              | L                    | G                        | 1                                    | X              |     |                      | 5-153678-79  | Tip Blank                     | 11/12/96/1500                        | NA                                       | ZV                 | B   |
| EAXX9                            | 2                              | L                    | I                        | 1                                    | X              |     |                      | 5-153680-81  | WT105A                        | 11/13/96/1300                        | MEARN2                                   | XV                 | B   |
| EAXX9                            | 2                              | L                    | I                        | 5                                    |                | X   |                      | 5-153682-83  | WT105A                        | 11/13/96/1300                        | MEARN2                                   | ZV                 |   |
| EAXY0                            | 2                              | L                    | I                        | 1                                    | X              |     |                      | 5-153685-86  | WT111A                        | 11/13/96/1300                        | MEARN3                                   | ZV                 |   |
| EAXY0                            | 2                              | L                    | I                        | 5                                    |                | X   |                      | 5-153687-88  | WT111A                        | 11/13/96/1300                        | MEARN3                                   | ZV                 |   |
| EAXY1                            | 2                              | L                    | I                        | 1                                    | X              |     |                      | 5-153690-91  | WT111AD                       | 11/13/96/1300                        | MEARN4                                   | ZV                 | D   |
| EAXY1                            | 2                              | L                    | I                        | 5                                    |                | X   |                      | 5-153692-93  | WT111AD                       | 11/13/96/1300                        | MEARN4                                   | ZV                 | D   |
| EAXY2                            | 2                              | L                    | I                        | 1                                    | X              |     |                      | 5-153695-96  | WT106A                        | 11/13/96/1447                        | MEARN5                                   | ZV                 |   |
| EAXY3                            | 2                              | L                    | I                        | 1                                    | X              |     |                      | 5-153700-01  | Field Blank                   | 11/13/96/1530                        | MEARN6                                   | ZV                 | B   |
| EAXY4                            | 2                              | L                    | I                        | 1                                    | X              |     |                      | 5-153705-10  | WT115A                        | 11/13/96/1535                        | MEARN7                                   | ZV                 |   |

|   |                       |  |                               |   |
|---|-----------------------|--|-------------------------------|---|
| Shipment for Case Complete? (Y/N)<br><b>Y</b> | Page<br><b>1 of 2</b> | Sample(s) to be Used for Laboratory QC<br><b>EAXY4</b> | Additional Sampler Signatures | Chain of Custody Seal Number(s)<br><b>97332 + 47333</b> |
|---|-----------------------|--|-------------------------------|---|

#### CHAIN OF CUSTODY RECORD

|  |                                      |   |                              |             |                                  |
|--|--------------------------------------|---|------------------------------|-------------|----------------------------------|
| Relinquished by: (Signature)<br><i>Lianne Vanderpool</i> | Date / Time<br><b>11/14/96 16:00</b> | Received by: (Signature)                | Relinquished by: (Signature) | Date / Time | Received by: (Signature)         |
| Relinquished by: (Signature)                             | Date / Time                          | Received by: (Signature)                | Relinquished by: (Signature) | Date / Time | Received by: (Signature)         |
| Relinquished by: (Signature)                             | Date / Time                          | Received for Laboratory by: (Signature) | Date / Time                  | Remarks     | Is custody seal intact? Y/N/none |

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A21-012 15 REV



United States Environmental Protection Agency  
Contract Laboratory Program

**Organic Traffic Report  
& Chain of Custody Record**  
(For Organic CLP Analysis)

SAS No  
(if applicable)

Case No.

25173

|                             |              |   |                       |  |                   |   |   |
|-----------------------------|--------------|---|-----------------------|--|-------------------|---|---|
| 1. Project Code<br>97       | Account Code | 2. Region No.<br>5  | Sampling Co.<br>USEPA | 4. Date Shipped<br>11/14/96  | Carrier<br>Fed Ex | 6. Matrix<br>(Enter in Column A)<br><br>1. Surface Water<br>2. Ground Water<br>3. Leachate<br>4. Field QC<br>5. Soil/Sediment<br>6. Oil (High only)<br>7. Waste (High only)<br>8. Other (Specify in Column A) | 7. Preservative<br>(Enter in Column D)<br><br>1. HCl<br>2. HNO3<br>3. NaHSO4<br>4. H2SO4<br>5. Ice only<br>6. Other (Specify in Column D)<br>N. Not preserved |
| Regional Information<br>FAX |              | Sampler (Name)<br>Luanne Vanderpool   |                       | Airbill Number<br>2854365113   |                   |   |   |
| Non-Superfund Program       |              | Sampler Signature<br><i>Luanne Vanderpool</i>   |                       | 5. Ship To<br>Data Chem Laboratories, Inc<br>960 W Leroy Dr<br>Salt Lake City, UT 84123<br>ATTN: Scott Saults  |                   |   |   |
| Site Name<br>NIMCO Dump     |              | 3. Purpose*<br>Lead <input checked="" type="checkbox"/> SF<br><input type="checkbox"/> PRP<br><input type="checkbox"/> ST<br><input type="checkbox"/> FED |                       | Early Action<br><input type="checkbox"/> CLEM<br><input type="checkbox"/> PA<br><input type="checkbox"/> REM<br><input type="checkbox"/> RI<br><input type="checkbox"/> SI<br><input type="checkbox"/> ESI |                   |   |   |
| City, State<br>Elkhart, IN  |              | Site Spill ID<br>41   |                       | Long-Term Action<br><input type="checkbox"/> FS<br><input checked="" type="checkbox"/> RD<br><input type="checkbox"/> RA<br><input type="checkbox"/> O&M<br><input type="checkbox"/> NPLD                  |                   |   |   |

| CLP Sample Numbers (from labels) | A Matrix (from Box 6)<br>Other | B Conc. Low Med High | C Sample Type: Comp./Grab | D Preservative (from Box 7)<br>Other | E RAS Analysis |     |          | F Regional Specific Tracking Number or Tag Numbers | G Station Location Identifier | H Mo/Day/Year/Time Sample Collection | I Corresponding CLP Inorganic Sample No. | J Sampler Initials | K Field QC Qualifier<br>B = Blank S = Spike<br>D = Duplicate<br>R = Retest<br>PE = Perform Eval<br>- = Not a QC Sample |
|----------------------------------|--------------------------------|----------------------|---------------------------|--------------------------------------|----------------|-----|----------|--|-------------------------------|--------------------------------------|--|--------------------|--|
|                                  |                                |                      |                           |                                      | VOA            | BNA | Pest/POB |  |                               |                                      |  |                    |  |
| EA XYS                           | 2                              | L                    | G                         | 1                                    | X              |     |          | 5-153717-18  | WT116A                        | 11/13/96/1655                        | NA                                       | XU                 |  |
| <i>W. Vanderpool</i>             |                                |                      |                           |                                      |                |     |          |  |                               |                                      |  |                    |  |

|  |                |  |                               |  |
|--|----------------|--|-------------------------------|--|
| Shipment for Case Complete? (Y/N)<br>Y | Page<br>2 of 2 | Sample(s) to be Used for Laboratory QC | Additional Sampler Signatures | Chain of Custody Seal Number(s)<br>47332 + 47333 |
|--|----------------|--|-------------------------------|--|

**CHAIN OF CUSTODY RECORD**

|  |                               |  |                              |             |                                  |
|--|-------------------------------|--|------------------------------|-------------|----------------------------------|
| Relinquished by: (Signature)<br><i>Luanne Vanderpool</i> | Date / Time<br>11/14/96 16:00 | Received by: (Signature)               | Relinquished by: (Signature) | Date / Time | Received by: (Signature)         |
| Relinquished by: (Signature)                             | Date / Time                   | Received by: (Signature)               | Relinquished by: (Signature) | Date / Time | Received by: (Signature)         |
| Relinquished by: (Signature)                             | Date / Time                   | Received for Laboratory by (Signature) | Date / Time                  | Remarks     | Is custody seal intact? Y/N/none |

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363888



United States Environmental Protection Agency  
Contract Laboratory Program

**Organic Traffic Report  
& Chain of Custody Record**  
(For Organic CLP Analysis)

SAS No  
(if applicable)

Case No.

25143

|                             |              |                                       |                       |   |                   |   |   |
|-----------------------------|--------------|---------------------------------------|-----------------------|---|-------------------|---|---|
| 1. Project Code<br>97       | Account Code | 2. Region No.<br>5                    | Sampling Co.<br>USEPA | 4. Date Shipped<br>11/14/96   | Carrier<br>Fed Ex | 6. Matrix<br>(Enter in Column A)<br><br>1. Surface Water<br>2. Ground Water<br>3. Leachate<br>4. Field QC<br>5. Soil/Sediment<br>6. Oil (High only)<br>7. Waste (High only)<br>8. Other (Specify in Column A) | 7. Preservative<br>(Enter in Column D)<br><br>1. HCl<br>2. HNO3<br>3. NaHSO4<br>4. H2SO4<br>5. Ice only<br>6. Other (Specify in Column D)<br>N. Not preserved |
| Regional Information<br>FAX |              | Sampler (Name)<br>Luanne Vandepool    |                       | Airbill Number<br>2854365124  |                   |   |   |
| Non-Superfund Program       |              | Sampler Signature<br>Luanne Vandepool |                       | 5. Ship To<br>Data Chem Laboratories, Inc<br>960 W Leroy Dr<br>Salt Lake City, UT 84123<br><br>ATTN: Scott Saults   |                   |   |   |
| Site Name<br>HIMCO DUMP     |              | 3. Purpose*                           |                       | Lead  |                   |   |   |
| City, State<br>Elkhart, IN  |              | Site Spill ID<br>4J                   |                       | <input checked="" type="checkbox"/> SF<br><input type="checkbox"/> PRP<br><input type="checkbox"/> ST<br><input type="checkbox"/> FED                                 |                   | <input type="checkbox"/> CLEM<br><input type="checkbox"/> PA<br><input type="checkbox"/> REM<br><input type="checkbox"/> RI<br><input type="checkbox"/> SI<br><input type="checkbox"/> ESI                    |   |
|                             |              |                                       |                       | <input checked="" type="checkbox"/> FS<br><input type="checkbox"/> RD<br><input type="checkbox"/> RA<br><input type="checkbox"/> O&M<br><input type="checkbox"/> NPLO |                   |   |   |

| CLP Sample Numbers (from labels)                | A Matrix (from Box 6) |              | C Sample Type: Comp./Grab | D Preservative (from Box 7) | E RAS Analysis |     |           | F Regional Specific Tracking Number or Tag Numbers | G Station Location Identifier | H Mo/Day/Year/Time Sample Collection | I Corresponding CLP Inorganic Sample No. | J Sampler Initials | K Field QC Qualifier<br><small>B = Blank S = Spike<br/>D = Duplicate<br/>R = Retest<br/>PE = Perform Eval<br/>-- = Not a QC Sample</small> |
|---|-----------------------|--------------|---------------------------|-----------------------------|----------------|-----|-----------|--|-------------------------------|--------------------------------------|--|--------------------|--|
|   | Other                 | Low Med High |                           |                             | VOA            | BNA | High only |  |                               |                                      |  |                    |  |
| EAXY2   | 2                     | L            | G                         | S                           |                | X   |           | 5-153697-98  | WT106A                        | 11/13/96/1447                        | MEARK5                                   | XU                 |  |
| EAXY3   | 2                     | L            | G                         | S                           |                | X   |           | 5-153702-03  | Field Blank                   | 11/13/96/1535                        | MEARK6                                   | XU                 | B  |
| EAXY4   | 2                     | L            | G                         | S                           |                | X   |           | 5-153711-14  | WT115A                        | 11/13/96/1535                        | MEARK7                                   | XU                 |  |
| <i>[Handwritten signature across the table]</i> |                       |              |                           |                             |                |     |           |  |                               |                                      |  |                    |  |

|  |                |   |                               |  |
|--|----------------|---|-------------------------------|--|
| Shipment for Case Complete? (Y/N)<br>0 | Page<br>1 of 1 | Sample(s) to be Used for Laboratory QC<br>EAXY4 | Additional Sampler Signatures | Chain of Custody Seal Number(s)<br>47330 & 47331 |
|--|----------------|---|-------------------------------|--|

**CHAIN OF CUSTODY RECORD**

|  |                              |   |                              |             |                                  |
|--|------------------------------|---|------------------------------|-------------|----------------------------------|
| Relinquished by: (Signature)<br>Luanne Vandepool | Date / Time<br>11/14/96 1600 | Received by: (Signature)                | Relinquished by: (Signature) | Date / Time | Received by: (Signature)         |
| Relinquished by: (Signature)                     | Date / Time                  | Received by: (Signature)                | Relinquished by: (Signature) | Date / Time | Received by: (Signature)         |
| Relinquished by: (Signature)                     | Date / Time                  | Received for Laboratory by: (Signature) | Date / Time                  | Remarks     | Is custody seal intact? Y/N/none |

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United States Environmental Protection Agency  
Contract Laboratory Program

**Organic Traffic Report  
& Chain of Custody Record**  
(For Inorganic CLP Analysis)

SAS No.  
(if applicable)

Case No.

25143

1 Project Code: 7  
Account Code

2 Region No: 5  
Sampling Co: US EPA

4 Date Shipped: 11/14/96  
Carrier: Fed Ex

Regional Information  
FAV  
Non-Superfund Program

3 Sampler (Name): Luanne Vandergriff  
Sampler Signature: [Signature]

Airbill Number: 2854365146  
5 Ship To: American Analytical Tech Serv.  
1700 W Albany, Suite C  
Broken Arrow, OK 74012  
ATTN: Chuck Hoover

Site Name: HIMCO DUMP  
City, State: Elkhart, IN  
Site Spill ID: 4J

3 Purpose:  ELEM ACTION  LONG TERM ACTION  
 SF  PA  FS  
 PRP  REM  RD  
 ST  RI  RA  
 FED  SI  O&M  
 ESI  INPLD

- 6 Matrix (Enter in Column A)
- Surface Water
  - Ground Water
  - Leachate
  - Field QC
  - Soil/Sediment
  - Oil (High only)
  - Waste (High only)
  - Other (specify in Column A)

- 7 Preservative (Enter in Column D)
- HCl
  - HNO3
  - NaOH
  - H2SO4
  - K2Cr2O7
  - Ice only
  - Other (specify in Column D)
  - Not preserved

| CLP Sample Numbers (from labels) | A Matrix (from Box 6)<br>Other | B Conc. Low Med High | C Sample Type: Comp/Grab | D Preservative (from Box 7)<br>Other | E - RAS Analysis |              |         |         |          |    |         | F Regional Specific Tracking Number or Tag Numbers | G Station Location Identifier | H Mo/Day/Year/Time Sample Collection | I Corresponding CLP Organic Sample No | J Sampler Initials | K Field QC Qualifier<br>B - Blank S - Spike<br>D - Duplicate<br>F - Finalize<br>PE - Perform Eval<br>- Not a QC Sample |
|----------------------------------|--------------------------------|----------------------|--------------------------|--------------------------------------|------------------|--------------|---------|---------|----------|----|---------|--|-------------------------------|--------------------------------------|---------------------------------------|--------------------|--|
|                                  |                                |                      |                          |                                      | Diss Metals      | Total Metals | Cyanide | NO2/NO3 | Fluoride | pH | Conduct |  |                               |                                      |                                       |                    |  |
| MEAKN2                           | 2                              | L                    | G                        | 2                                    | ✓                |              |         |         |          |    |         | 5-153684   | WT105A                        | 11/13/96/1330                        | EAXY9                                 | XU                 |  |
| MEAKN3                           | 2                              | L                    | G                        | 2                                    | ✓                |              |         |         |          |    |         | 5-153689   | WT111A                        | 11/13/96/1330                        | EAXY0                                 | XU                 |  |
| MEAKN4                           | 2                              | L                    | G                        | 2                                    | ✓                |              |         |         |          |    |         | 5-153694   | WT11A-D                       | 11/13/96/1330                        | EAXY1                                 | XU                 | D  |
| MEAKN5                           | 2                              | L                    | G                        | 2                                    | ✓                |              |         |         |          |    |         | 5-153699   | WT106A                        | 11/13/96/1447                        | EAXY2                                 | XU                 |  |
| MEAKN6                           | 4                              | L                    | G                        | 2                                    | ✓                |              |         |         |          |    |         | 5-153704   | Field Blank                   | 11/13/96/1530                        | EAXY3                                 | XU                 | B  |
| MEAKN7                           | 2                              | L                    | G                        | 2                                    | ✓                |              |         |         |          |    |         | 5-153715-16  | WT115A                        | 11/13/96/1535                        | EAXY4                                 | XU                 |  |

Shipment for Case Complete?  (N) Page 1 of 1 Sample(s) to be Used for Laboratory QC: MEAKN7 Additional Sampler Signatures: Chain of Custody Seal Number(s): 47334 & 47335

**CHAIN OF CUSTODY RECORD**

|   |                                     |   |                              |             |                                  |
|---|-------------------------------------|---|------------------------------|-------------|----------------------------------|
| Relinquished by: (Signature)<br><u>Luanne Vandergriff</u> | Date / Time<br><u>11/14/96 1600</u> | Received by: (Signature)                | Relinquished by: (Signature) | Date / Time | Received by: (Signature)         |
| Relinquished by: (Signature)                              | Date / Time                         | Received by: (Signature)                | Relinquished by: (Signature) | Date / Time | Received by: (Signature)         |
| Relinquished by: (Signature)                              | Date / Time                         | Received for Laboratory by: (Signature) | Date / Time                  | Remarks     | Is custody seal intact? Y/N/none |

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359371

A21-012-5 REV 3/83

**GROUND-WATER SAMPLING RECORD**

Well ID: WT116A  
 Station #: \_\_\_\_\_

Facility Name: HIMCO DUMP Date: 1/1

Well Depth: 14.3' Depth to Water: 8.08 Well Diameter: 2

Casing Material: PVC Volume Of Water per Well Volume: 1.12

Sampling Crew: Bellari, Vandergaard, Dawelhaus

Type of Pump: Fultz Tubing Material: \_\_\_\_\_ Pump set at \_\_\_\_\_ ft.

Weather Conditions: \_\_\_\_\_ NOTES: \_\_\_\_\_

**GROUND-WATER SAMPLING PARAMETERS** (others 10%) (opt)

| Time             | Water Level | Volume Pumped | Pumping Rate | D.O. (ppm) | Temp. (°C) | S.C. (m/cm) | pH   | Eh (mV) | Turbidity (NTU) |
|------------------|-------------|---------------|--------------|------------|------------|-------------|------|---------|-----------------|
| 1545             |             |               |              |            |            |             |      |         |                 |
| 1556             |             | 1 1/2         |              | 3.19       | 8.46       | 3070        | 7.14 |         |                 |
| 1600             | 12'         | 2             |              | 0.45       | 10.21      | 3100        | 7.12 |         |                 |
| Pump off at 1604 |             |               |              |            |            |             |      |         |                 |
| on field         |             |               |              |            |            |             |      |         |                 |
| 1613             |             | 5             |              | 1.09       | 10.49      | 3100        | 7.15 |         |                 |
| Pump off at 1614 |             |               |              |            |            |             |      |         |                 |
|                  |             |               |              |            |            |             |      |         |                 |
|                  |             |               |              |            |            |             |      |         |                 |
|                  |             |               |              |            |            |             |      |         |                 |
|                  |             |               |              |            |            |             |      |         |                 |
|                  |             |               |              |            |            |             |      |         |                 |

Filtered: Y or N Filter Size: \_\_\_\_\_ m Filter Capacity: \_\_\_\_\_ Brand: \_\_\_\_\_

Sampled at: \_\_\_\_\_ Parameters taken with: \_\_\_\_\_

Sample delivered to \_\_\_\_\_ by \_\_\_\_\_ at \_\_\_\_\_

Sample CRL #: \_\_\_\_\_ OTR #: \_\_\_\_\_ ITR #: \_\_\_\_\_ SAS #: \_\_\_\_\_

| Parameters Collected | Number of Bottles | Bottle Lot Number     |
|----------------------|-------------------|-----------------------|
| VOA's                | 2-40ml            | B4206030 ← only       |
| SVOC's               | 2-80's            | A1134020 ← Not called |
| Metals               | 1-1L              | C3156040 ← Not called |

After 1 gallon had to lower pump

Pump off 1548

Pump off at 1604

**GROUND-WATER SAMPLING RECORD**

Well ID: WT115A  
 Station #: \_\_\_\_\_

Facility Name: Himco Dump Date: \_\_\_\_\_

Well Depth: 19.22' Depth to Water: 14.75 Well Diameter: 2

Casing Material: PVC Volume Of Water per Well Volume: .84

Sampling Crew: \_\_\_\_\_

Type of Pump: Fultz Tubing Material: \_\_\_\_\_ Pump set at 17 ft.

Weather Conditions: \_\_\_\_\_ NOTES: \_\_\_\_\_

*filter started 3:22*

**GROUND-WATER SAMPLING PARAMETERS**

| Time            | Water Level | Volume Pumped | Pumping Rate | D.O. (ppm) | Temp. (°C) | S.C. (m./cm) | pH   | Eh (mV) | Turbidity (NTU) |
|-----------------|-------------|---------------|--------------|------------|------------|--------------|------|---------|-----------------|
| 3:25            | 14.89       | 2.5           |              | .35        | 11.97      | 1.422        | 6.8  |         | 43              |
| 3:28            | 14.91       | 4.0           |              | .20        | 12.28      | 1.462        | 6.8  |         | 7.4             |
| 3:31            | 14.90       | 6.0           |              | .21        | 12.36      | 1.464        | 6.8  |         | 3.9             |
| 3:34            | 14.91       | 8.5           |              | .21        | 12.38      | 1.468        | 6.79 |         | 3.6             |
| SAMPLE 3:35 VOA |             |               |              |            |            |              |      |         |                 |
| 3:40 SVOC       |             |               |              |            |            |              |      |         |                 |
| 3:44 METALS     |             |               |              |            |            |              |      |         |                 |
|                 |             |               |              |            |            |              |      |         |                 |
|                 |             |               |              |            |            |              |      |         |                 |
|                 |             |               |              |            |            |              |      |         |                 |
|                 |             |               |              |            |            |              |      |         |                 |
|                 |             |               |              |            |            |              |      |         |                 |

Filtered: Y or (N) Filter Size: \_\_\_\_\_ m Filter Capacity: \_\_\_\_\_ Brand: \_\_\_\_\_

Sampled at: \_\_\_\_\_ Parameters taken with: HydroLab Scout 2

Sample delivered to \_\_\_\_\_ by \_\_\_\_\_ at \_\_\_\_\_

Sample CRL #: \_\_\_\_\_ OTR #: \_\_\_\_\_ ITR #: \_\_\_\_\_ SAS #: \_\_\_\_\_

| Parameters Collected | Number of Bottles | Bottle Lot Number |
|----------------------|-------------------|-------------------|
| VOA's                | <u>2x3</u>        | _____             |
| SVOC's               | <u>2x2</u>        | _____             |
| Metals               | <u>1x2</u>        | _____             |

*MSD*

*EAX Y4  
 MEAKNB*

GROUND-WATER SAMPLING RECORD

Well ID: WAT 106A  
 Station #: \_\_\_\_\_

Facility Name: HIMCO Dump Date: 11 / 13 / 96

Well Depth: 18.48 Depth to Water: 11.15 Well Diameter: 2"

Casing Material: SS Volume Of Water per Well Volume: 1.19

Sampling Crew: R. Dovelius, T. Willoughby, A. Baumann

Type of Pump: Fultz Tubing Material: Teflon Pump set at 14.5 ft.

Weather Conditions: P. Cloudy, Cold NOTES: \_\_\_\_\_

GROUND-WATER SAMPLING PARAMETERS

| Time                     | Water Level | Volume Pumped | Pumping Rate | D.O. (ppm) | Temp. (°C) | S.C. (m/cm) | pH   | Eh (mV) | Turbidity (NTU) |
|--------------------------|-------------|---------------|--------------|------------|------------|-------------|------|---------|-----------------|
| <i>Start Time @ 1418</i> |             |               |              |            |            |             |      |         |                 |
| 1420                     | 11.21       | 1             |              | 1.81       | 10.9       | 906         | 7.13 |         | Red Color       |
| 1422                     | 11.20       | 2.5           |              | 1.20       | 11.36      | 918         | 7.18 |         | Red Color       |
| 1427                     | 11.20       | 5             |              | 1.24       | 11.41      | 960         | 7.18 |         |                 |
| 1429                     | 11.20       | 6             |              | 1.29       | 11.41      | 964         | 7.18 |         | 98.5            |
| 1431                     | 11.20       | 8             |              | 1.24       | 11.50      | 968         | 7.19 |         | 37.4            |
| 1434                     | 11.20       | 10            |              | 1.28       | 11.47      | 977         | 7.18 |         | 21.3            |
| 1437                     | 11.21       | 12            |              | 1.27       | 11.45      | 973         | 7.17 |         | 11.10           |
| 1441                     | 11.21       | 14            |              | 1.20       | 11.44      | 979         | 7.17 |         | 5.6             |
| 1446                     | 11.21       | 16            |              | 1.18       | 11.45      | 982         | 7.17 |         | 4.88            |
| 1453                     | 11.21       |               |              | 1.19       | 11.5       | 987         | 7.16 |         | 2.79            |
| 1454                     | Pump Off    |               |              |            |            |             |      |         |                 |

Filtered: Y or (N) Filter Size: \_\_\_\_\_ m Filter Capacity: \_\_\_\_\_ Brand: \_\_\_\_\_

Sampled at: \_\_\_\_\_ Parameters taken with: HydroLab

Sample delivered to \_\_\_\_\_ by R. Dovelius at 1447

Sample CRL #: \_\_\_\_\_ OTR #: \_\_\_\_\_ ITR #: \_\_\_\_\_ SAS #: \_\_\_\_\_

| Parameters Collected | Number of Bottles | Bottle Lot Number |
|----------------------|-------------------|-------------------|
| VOA's                | <u>2</u>          | <u>B4206030</u>   |
| SVOC's               | <u>2</u>          | <u>A1134020</u>   |
| Metals               | <u>1</u>          | <u>C3156040</u>   |

EAXY2  
 MEAXN5

GROUND-WATER SAMPLING RECORD

Well ID: WT111A  
 Station #: \_\_\_\_\_

Facility Name: HIMCO DUMP Date: 11/13/96

Well Depth: 21.17' Depth to Water: 14.55 Well Diameter: \_\_\_\_\_  
 1:04pm

Casing Material: \_\_\_\_\_ Volume Of Water per Well Volume: 1.18

Sampling Crew: \_\_\_\_\_

Type of Pump: \_\_\_\_\_ Tubing Material: \_\_\_\_\_ Pump set at \_\_\_\_\_ ft.

Weather Conditions: \_\_\_\_\_ NOTES: \_\_\_\_\_

GROUND-WATER SAMPLING PARAMETERS

| Time          | Water Level  | Volume Pumped | Pumping Rate | D.O. (ppm) | Temp. (°C)   | S.C. (mL/cm) | pH          | opt Ex (mV) | Turbidity (NTU) |
|---------------|--------------|---------------|--------------|------------|--------------|--------------|-------------|-------------|-----------------|
| <u>1:04pm</u> |              |               |              |            |              |              |             |             |                 |
| <u>1:23</u>   | <u>14.75</u> | <u>3.0</u>    | <u>low</u>   | <u>.58</u> | <u>12.34</u> | <u>114</u>   | <u>5.7</u>  |             | <u>4.05</u>     |
| <u>1:24.7</u> | <u>14.77</u> | <u>4.0</u>    |              | <u>.50</u> | <u>12.43</u> | <u>115</u>   | <u>5.67</u> |             | <u>3.10</u>     |
| <u>1:37</u>   |              | <u>5 1/2</u>  |              | <u>.55</u> | <u>12.44</u> | <u>113</u>   | <u>5.65</u> |             | <u>2.68</u>     |
| <u>1:41</u>   | <u>runny</u> | <u>off.</u>   |              |            |              |              |             |             |                 |
|               |              |               |              |            |              |              |             |             |                 |
|               |              |               |              |            |              |              |             |             |                 |
|               |              |               |              |            |              |              |             |             |                 |
|               |              |               |              |            |              |              |             |             |                 |
|               |              |               |              |            |              |              |             |             |                 |
|               |              |               |              |            |              |              |             |             |                 |
|               |              |               |              |            |              |              |             |             |                 |
|               |              |               |              |            |              |              |             |             |                 |
|               |              |               |              |            |              |              |             |             |                 |
|               |              |               |              |            |              |              |             |             |                 |
|               |              |               |              |            |              |              |             |             |                 |
|               |              |               |              |            |              |              |             |             |                 |
|               |              |               |              |            |              |              |             |             |                 |
|               |              |               |              |            |              |              |             |             |                 |
|               |              |               |              |            |              |              |             |             |                 |
|               |              |               |              |            |              |              |             |             |                 |

pH strip 5-6

upli →

Filtered: Y or N Filter Size: \_\_\_\_\_ m Filter Capacity: \_\_\_\_\_ Brand: \_\_\_\_\_

Sampled at: \_\_\_\_\_ Parameters taken with: \_\_\_\_\_

Sample delivered to \_\_\_\_\_ by \_\_\_\_\_ at \_\_\_\_\_

Sample CRL #: \_\_\_\_\_ OTR #: \_\_\_\_\_ ITR #: \_\_\_\_\_ SAS #: \_\_\_\_\_

DYP

| Parameters Collected | Number of Bottles | Bottle Lot Number |
|----------------------|-------------------|-------------------|
| VOA's                | <u>2, 2</u>       |                   |
| SVOC's               | <u>2, 2</u>       | <u>A1085030</u>   |
| Metals               | <u>1, 1</u>       | <u>C31506040</u>  |
| <u>EAXX9 EAXY1</u>   |                   |                   |
| <u>MEAXN3 MEAKN4</u> |                   |                   |

GROUND-WATER SAMPLING RECORD

Well ID: WT105A  
 Station #: \_\_\_\_\_

Facility Name: HIMCO DUMP

Date: 11 / 13 / 96

Well Depth: 17.89 + 161 Depth to Water: 12.1 Well Diameter: 2"

Casing Material: FFCS Volume Of Water per Well Volume: 1.05

Sampling Crew: R. Duwelius T. Willoughby A. Baumann

Type of Pump: Fultz Tubing Material: Teflon Pump set at 14 ft.

Weather Conditions: P. Cloudy, Flurries, Cold NOTES: \_\_\_\_\_

GROUND-WATER SAMPLING PARAMETERS

| Time               | Water Level | Volume Pumped | Pumping Rate | D.O. (ppm) | Temp. (°C) | S.C. (mL/cm) | pH   | Eh (mV) | Turbidity (NTU) |
|--------------------|-------------|---------------|--------------|------------|------------|--------------|------|---------|-----------------|
| <i>Starte</i> 1247 |             |               |              |            |            |              |      |         |                 |
| 1249               | 12.15       | 1.5           |              | 4.29       | 11.54      | 306          | 7.29 |         | 69.8            |
| Pump off 1250      |             |               |              |            |            |              |      |         |                 |
| 1252               | 12.15       | 3.0           |              | 4.54       | 11.45      | 307          | 7.69 |         | 35.5            |
| 1255               | 12.15       | 4             |              | 4.88       | 12.03      | 301          | 7.81 |         | 21.0            |
| 1257               | 12.15       | 5             |              | 5.04       | 12.08      | 300          | 7.87 |         | 9.30            |
| 1258 1/2           | 12.16       | 6             |              | 5.09       | 12.18      | 302          | 7.87 |         | 7.17            |
| 1300               | 12.16       | 7             |              | 5.07       | 12.26      | 303          | 7.89 |         | 3.54            |
| 1302               | 12.16       | 8             |              | 5.12       | 12.18      | 304          | 7.89 |         | .08             |
|                    |             |               |              |            |            |              |      |         |                 |
|                    |             |               |              |            |            |              |      |         |                 |
|                    |             |               |              |            |            |              |      |         |                 |

Filtered: Y or (N) Filter Size: \_\_\_\_\_:m Filter Capacity: \_\_\_\_\_ Brand: \_\_\_\_\_

Sampled at: 1302 Parameters taken with: Hydrolab

Sample delivered to L. Vanderpool by R. Duwelius at 1330

Sample CRL #: \_\_\_\_\_ OTR #: \_\_\_\_\_ ITR #: \_\_\_\_\_ SAS #: \_\_\_\_\_

| Parameters Collected | Number of Bottles | Bottle Lot Number |
|----------------------|-------------------|-------------------|
| VOA's                | <u>2</u>          | <u>B4026030</u>   |
| SVOC's               | <u>2</u>          | <u>A1085030</u>   |
| Metals               | <u>1</u>          | <u>C3156040</u>   |

FA XX 9  
 ME AX N 2

**GROUND-WATER SAMPLING RECORD**

Well ID: W1F 5181X  
 Station #: \_\_\_\_\_

Facility Name: Amic Dump Date: 1/1

Well Depth: \_\_\_\_\_ Depth to Water: \_\_\_\_\_ Well Diameter: \_\_\_\_\_

Casing Material: \_\_\_\_\_ Volume Of Water per Well Volume: \_\_\_\_\_

Sampling Crew: \_\_\_\_\_

Type of Pump: \_\_\_\_\_ Tubing Material: \_\_\_\_\_ Pump set at \_\_\_\_\_ ft.

Weather Conditions: \_\_\_\_\_ NOTES: \_\_\_\_\_

**GROUND-WATER SAMPLING PARAMETERS**

| <u>Time</u> | <u>Water Level</u> | <u>Volume Pumped</u> | <u>Pumping Rate</u> | <u>D.O. (ppm)</u> | <u>Temp. (°C)</u> | <u>S.C. (m-Scm)</u> | <u>pH</u> | <u>EH (mV)</u> | <u>Turbidity (NTU)</u> |
|-------------|--------------------|----------------------|---------------------|-------------------|-------------------|---------------------|-----------|----------------|------------------------|
| _____       | _____              | _____                | _____               | _____             | _____             | _____               | _____     | _____          | _____                  |
| _____       | _____              | _____                | _____               | _____             | _____             | _____               | _____     | _____          | _____                  |
| _____       | _____              | _____                | _____               | _____             | _____             | _____               | _____     | _____          | _____                  |
| _____       | _____              | _____                | _____               | _____             | _____             | _____               | _____     | _____          | _____                  |
| _____       | _____              | _____                | _____               | _____             | _____             | _____               | _____     | _____          | _____                  |
| _____       | _____              | _____                | _____               | _____             | _____             | _____               | _____     | _____          | _____                  |
| _____       | _____              | _____                | _____               | _____             | _____             | _____               | _____     | _____          | _____                  |
| _____       | _____              | _____                | _____               | _____             | _____             | _____               | _____     | _____          | _____                  |
| _____       | _____              | _____                | _____               | _____             | _____             | _____               | _____     | _____          | _____                  |
| _____       | _____              | _____                | _____               | _____             | _____             | _____               | _____     | _____          | _____                  |
| _____       | _____              | _____                | _____               | _____             | _____             | _____               | _____     | _____          | _____                  |
| _____       | _____              | _____                | _____               | _____             | _____             | _____               | _____     | _____          | _____                  |
| _____       | _____              | _____                | _____               | _____             | _____             | _____               | _____     | _____          | _____                  |
| _____       | _____              | _____                | _____               | _____             | _____             | _____               | _____     | _____          | _____                  |
| _____       | _____              | _____                | _____               | _____             | _____             | _____               | _____     | _____          | _____                  |

Filtered: Y or N Filter Size: \_\_\_\_\_ m Filter Capacity: \_\_\_\_\_ Brand: \_\_\_\_\_

Sampled at: 1500 (11/12/96) Parameters taken with: \_\_\_\_\_

Sample delivered to \_\_\_\_\_ by \_\_\_\_\_ at \_\_\_\_\_

Sample CRL #: \_\_\_\_\_ OTR #: \_\_\_\_\_ ITR #: \_\_\_\_\_ SAS #: \_\_\_\_\_

| <u>Parameters Collected</u> | <u>Number of Bottles</u> | <u>Bottle Lot Number</u> |
|-----------------------------|--------------------------|--------------------------|
| VOA's                       | <u>2</u>                 | <u>B4206030</u>          |
| SVOC's                      | _____                    | _____                    |
| Metals                      | _____                    | _____                    |

**EAXX8**

GROUND-WATER SAMPLING RECORD

Well ID: Field Station  
Station #: \_\_\_\_\_

Facility Name: Hondo Dump Date: 11/13/96

Well Depth: \_\_\_\_\_ Depth to Water: \_\_\_\_\_ Well Diameter: \_\_\_\_\_

Casing Material: \_\_\_\_\_ Volume Of Water per Well Volume: \_\_\_\_\_

Sampling Crew: Tim, Richard, Alan, LV

Type of Pump: Fultz Tubing Material: \_\_\_\_\_ Pump set at \_\_\_\_\_ ft.

Weather Conditions: \_\_\_\_\_ NOTES: \_\_\_\_\_

GROUND-WATER SAMPLING PARAMETERS

| Time  | Water Level | Volume Pumped | Pumping Rate | D.O. (ppm) | Temp. (°C) | S.C. (mL/cm) | pH    | EH (mV) | Turbidity (NTU) |
|-------|-------------|---------------|--------------|------------|------------|--------------|-------|---------|-----------------|
| _____ | _____       | _____         | _____        | _____      | _____      | _____        | _____ | _____   | _____           |
| _____ | _____       | _____         | _____        | _____      | _____      | _____        | _____ | _____   | _____           |
| _____ | _____       | _____         | _____        | _____      | _____      | _____        | _____ | _____   | _____           |
| _____ | _____       | _____         | _____        | _____      | _____      | _____        | _____ | _____   | _____           |
| _____ | _____       | _____         | _____        | _____      | _____      | _____        | _____ | _____   | _____           |
| _____ | _____       | _____         | _____        | _____      | _____      | _____        | _____ | _____   | _____           |
| _____ | _____       | _____         | _____        | _____      | _____      | _____        | _____ | _____   | _____           |
| _____ | _____       | _____         | _____        | _____      | _____      | _____        | _____ | _____   | _____           |
| _____ | _____       | _____         | _____        | _____      | _____      | _____        | _____ | _____   | _____           |
| _____ | _____       | _____         | _____        | _____      | _____      | _____        | _____ | _____   | _____           |
| _____ | _____       | _____         | _____        | _____      | _____      | _____        | _____ | _____   | _____           |
| _____ | _____       | _____         | _____        | _____      | _____      | _____        | _____ | _____   | _____           |
| _____ | _____       | _____         | _____        | _____      | _____      | _____        | _____ | _____   | _____           |
| _____ | _____       | _____         | _____        | _____      | _____      | _____        | _____ | _____   | _____           |
| _____ | _____       | _____         | _____        | _____      | _____      | _____        | _____ | _____   | _____           |
| _____ | _____       | _____         | _____        | _____      | _____      | _____        | _____ | _____   | _____           |
| _____ | _____       | _____         | _____        | _____      | _____      | _____        | _____ | _____   | _____           |
| _____ | _____       | _____         | _____        | _____      | _____      | _____        | _____ | _____   | _____           |
| _____ | _____       | _____         | _____        | _____      | _____      | _____        | _____ | _____   | _____           |

Filtered: Y or N Filter Size: \_\_\_\_\_ m Filter Capacity: \_\_\_\_\_ Brand: \_\_\_\_\_

Sampled at: 1530 Parameters taken with: \_\_\_\_\_

Sample delivered to \_\_\_\_\_ by \_\_\_\_\_ at \_\_\_\_\_

Sample CRL #: \_\_\_\_\_ OTR #: \_\_\_\_\_ ITR #: \_\_\_\_\_ SAS #: \_\_\_\_\_

| Parameters Collected | Number of Bottles | Bottle Lot Number |
|----------------------|-------------------|-------------------|
| VOA's                | <u>2</u>          | <u>AMB4206030</u> |
| SVOC's               | <u>2</u>          | <u>A1134020</u>   |
| Metals               | <u>1</u>          | <u>C3156040</u>   |

EA XY3  
MEANING

**Appendix I-i**

**Data Quality Evaluation Report  
for  
1998 Supplemental Site Investigation**

## DATA QUALITY EVALUATION REPORT 1998 SUPPLEMENTAL SITE INVESTIGATION/RISK ASSESSMENT

### 1 General

This section presents a data usability assessment for the soil, ground water, and soil vapor field samples collected during the Supplemental Site Investigation conducted October 12 through December 14, 1998. The soil and ground water samples were analyzed for the Target Compound List Volatiles and Semivolatiles and the Target Analyte List (23 metals plus cyanide) using USEPA Contract Laboratory Program Organic and Inorganic Routine Analytical Services. The soil vapor samples were analyzed using SW846 Method 5041A/8260B. Quality control (QC) checks were performed routinely during data collection and analysis to verify that the data collected are of appropriate quality for the intended data use and that the data quality objectives were met. One hundred percent of the soil and ground water analytical data and approximately fifty percent of the soil vapor analytical data received a full data validation using the National Functional Guidelines for Organic and Inorganic Data Review - EPA 540/R-94/012 and /013.

### 2 Sample Collection Quality Control

#### 2.1 Field Duplicates

Field duplicates were collected at a rate of approximately 10% from all media sampled. For review purposes a limit of 50% Relative Percent Difference (RPD) was imposed on the data to evaluate the precision of sample collection. In general, precision was very good and only outliers are discussed below.

**Soil** - The duplicate pairs show excellent precision for the organic compounds and good precision for the inorganic analytes with the following exceptions. See Table 1-1 for all soil duplicate sample RPDs.

- Location SB06-0.5: The cobalt RPD is 53% and the cyanide RPD is 100%. The RPD for cyanide is calculated on the prime field sample cyanide result of 0.3 mg/kg while the duplicate is reported as less than 0.10 mg/kg.
- Location SB09-0.5: The calcium RPD is 152% and the magnesium RPD is 51%.
- Location SB10-0.5: All target analytes are below the fifty percent RPD except cyanide at 151%.
- Location SB16-6: The results from this location show consistency in the detections of polynuclear aromatic compounds between the prime sample and the duplicate with only two compounds slightly above the target RPD of fifty percent, benzo(b)fluoranthene and benzo(k)fluoranthene at 54% and 69% respectively. Although there are several inorganic analytes above the RPD

of fifty percent (aluminum at 59%, barium at 55%, calcium at 70%, manganese at 88%, sodium at 53% and cyanide at 66%), none are significant enough to impact data usability.

**Ground Water** - The ground water field duplicates demonstrate excellent precision. The relative percent difference between pairs is predominantly in the range of ten to twenty percent. The greatest difference calculated is the lead result for one pair at 34 percent. See Table 1-2 for all ground water duplicate sample RPDs.

**Soil Vapor** - The duplicate pairs show excellent precision with the following exceptions. See Table 1-3 for all soil vapor duplicate sample RPDs.

- Location TT-14: The 1,1 dichloroethane RPD is greater than 100% and m, p-xylene RPD is greater than 59%. Although these compounds have been correctly identified the concentration present must be considered estimated due to the variance between samples.
- Location TT-26: Carbon disulfide RPD is 69% and the tetrachloroethene RPD is 59%.
- Location TT-39: Toluene has an RPD of 107% and the carbon disulfide RPD is 53%. The concentrations of both compounds are near the reporting limits which may explain the variability.
- Location TT-46: Carbon disulfide has an RPD of 71% and the toluene RPD is 128%. These concentrations are also near their respective reporting limits which may explain the variability.

## 2.2 Equipment Blanks

Equipment blank samples were collected by pouring purchased deionized water over the decontaminated equipment and capturing the run-off. These blank samples were always collected just prior to using the equipment at the referenced location.

**Soil** - Equipment blanks were not collected in support of soil sampling.

**Ground Water** - During the three day ground water sample collection activities two equipment rinse blanks were collected on separate days. See Table 1-4 for a summary of compounds detected. No volatile or semivolatile organic compounds were detected in either blank with the exception of bis (2-ethylhexyl)phthalate (BEHP) in one sample. BEHP was not detected in the accompanying field sample. Both of the blanks also contained inorganic analytes at low concentrations as described below.

The equipment blank collected prior to well WT115A sampling contained cyanide at 12.0 µg/L J as compared to 12.4 µg/L J in the ground water sample from this location. Zinc was also detected in the blank at 11.2 µg/L J which is greater than the 3.7 µg/L J reported in ground water sample. The zinc and cyanide results from this location have been flagged "UB".

Antimony, calcium, iron, selenium, sodium, and zinc were reported in the equipment blank collected prior to well WT119A sampling. Except for an antimony concentration of 45.4 µg/L J in the blank, the impact to the sample data is negligible due to the low levels reported in the field sample. The antimony concentration in the sample is 43.2 µg/L J sample. This result has been qualified "UB" since the concentration is less than five times that of the blank

**Soil Vapor** - Two equipment rinse blanks and two field blanks were collected during the course of the field sampling effort to evaluate the potential for influence on the subsurface samples from sampling equipment and ambient air. See Table 1-5 for a summary of the compounds detected in the ambient air and equipment rinse blanks.

The field blanks were collected by drawing ambient air through a clean sorbent tube at approximately the same flow rate as the field sample collection. The air did not have contact with any sampling equipment as it was drawn into the sorbent tube. Benzene, toluene, ethyl benzene, xylenes (BTEX), styrene, and carbon tetrachloride were present in both field blanks at comparable concentrations which may indicate that there is a source of these volatiles on site not necessarily associated with the subsurface soil vapor. Methylene chloride, acetone, and carbon disulfide were also present in either the field blanks or the equipment rinse blanks. It is not clear, based on the available data, if these compounds are site related or sampling/laboratory contamination. However, the common occurrence of these specific compounds in environmental media due to laboratory contamination makes site related presence extremely suspect.

The equipment blanks were collected after the field blanks by drawing ambient air through a complete sample collection assembly. BTEX, styrene and carbon tetrachloride were reported in both equipment rinse blanks. This is probably due to the presence of these compounds in the ambient air rather than on the equipment. Tetrachloroethene was reported in both equipment rinse blanks, one ambient air blank and neither of the field samples collected immediately after these blanks. It is not clear what the source of this compound is. However, based on these results the ambient air cannot be eliminated. Vinyl chloride was detected in one equipment blank. The field sample collected prior to this blank contained an elevated concentration of vinyl chloride (>70 µg/m<sup>3</sup>). Despite thorough decontamination it may be possible that the steel rod retained some vinyl chloride. The field sample that was collected with the same equipment immediately after the blank was nondetect for vinyl chloride as were the ambient air and the trip blank.

## 2.3 Sample Handling and Preservation

### 2.3.1 Chain of Custody and Cooler Receipt

No sample custody or cooler receipt problems were noted for the soil, ground water, or soil vapor samples.

### 2.3.2 Trip Blanks

Trip blanks accompanied every ground water and soil vapor sample submitted for analysis. The ground water trip blanks were prepared by the lab from analyte free water and shipped to the site with the clean sample containers. These blanks were then included with each cooler that contained water samples for volatile analysis.

For the soil gas samples an unopened sorbent tube was placed in the cooler on site and kept with the samples from the time of collection through shipment until receipt by the laboratory. The trip blank results are summarized in Table 1-6

Only the blanks that demonstrated contamination or encountered analytical problems are discussed. All others were reported as not having detectable levels of the target compounds.

**Ground Water** - The trip blanks for sampling dates 19, 20, and 21 October 1998 were analyzed just outside of the allowable holding time for preserved water volatiles. No compounds were detected and the results have been qualified "UJ". The trip blank that accompanied the 22 October 1998 cooler is unusable. The blank was analyzed beyond an acceptable holding time and the results have been qualified as "R".

The impact to the data quality from the trip blanks is negligible since the field samples did not demonstrate the presence of target compounds except 1,1 dichloroethane at estimated values in two samples.

**Soil Vapor** - The trip blank associated with sample locations TT-15, TT-17, TT-18 and TT-19 contained 16 ng of carbon disulfide and 43 ng of benzene. Because of these positive results for the trip blank the detection of 59 ng carbon disulfide and 44 ng of benzene at TT-15 are suspect.

The trip blank associated with sample locations TT-26, TT-27, TT-28, TT-29, TT-30, and TT-31 contained 11 ng of carbon disulfide. Therefore the carbon disulfide detections of 32 ng at TT-29, 20 ng at TT-30 and 22 ng at TT-31 are suspect based on the results of the trip blank.

The trip blank associated with sample locations TT-16, TT-32, TT-33, and TT-34 contained carbon disulfide at 7.3 ng, benzene at 37 ng, toluene at 7.6 ng, tetrachloroethene at 22 ng, m,p-xylenes at 14 ng and ethylbenzene at 6.5 ng. Hence, the detections of tetrachloroethene at 36 ng in sample TT-32 and xylene at 51 ng in sample TT-16 are suspect based on the results of the trip blank.

The trip blank associated with sample locations TT-35, TT-36, TT-37, and TT-38 contained benzene at 46 ng, toluene at 17 ng, and m,p-xylene at 16 ng. The toluene detections in all four samples are suspect based on the results of the trip blank.

The results for these samples have been qualified nondetect based on the National Functional Guideline that less than 5x the blank is not considered site related. The other samples in these groups do not require qualification since they were either nondetect or contained significant levels of the compounds in question. The high levels, may in fact, have attributed to the contamination of the trip blanks and accompanying samples that demonstrate low concentrations.

### 2.3.3 Sample Preservation

All samples were shipped in coolers that contained sufficient ice to maintain an internal temperature of 4 degrees C.

**Water Samples for Metals and Cyanide Analysis** - The water samples were properly preserved with nitric acid for metals and sodium hydroxide for cyanide except as noted here. Samples for metals analysis from locations WT102A, WT112A, WT114A, and WT116A demonstrated a pH of three rather than less than two when checked by the laboratory. The detections for these samples have been qualified as estimated "J" and the nondetects have been qualified as "UJ".

**Water Samples for Volatile Analysis** - All water samples were properly preserved with hydrochloric acid to a pH of less than two.

### 2.3.4 Holding Times

Holding times were generally met for the extraction and/or analysis of all soil, ground water and soil vapor samples. Only the exceptions are noted here.

The semivolatile samples from monitoring wells WT101A and WT115A were re-extracted outside primary holding time. The results have been qualified as "UJ" and are biased low. This affects only a subset of the target list since the initial extraction results are usable except for those results qualified "R".

Several water volatile trip blanks were analyzed outside holding times as indicated in the trip blank discussion.

### **3 Laboratory Control**

#### **3.1 Method Control**

##### **3.1.1 Soil and Ground Water**

This section presents an overview of the data validation performed by US EPA-Region 5 contractors using the National Functional Guidelines for Inorganic and Organic Data Review. The data is generally usable except as noted here. Complete details can be found in the validation narratives provided in this appendix.

###### **3.1.1.1 Instrument Calibration**

**Volatiles** - Numerous instances of continuing calibration whose corresponding initial calibration has percent relative standard deviations outside primary criteria and continuing calibration with percent difference outside criteria are noted. The detections have been qualified "J" and the nondetections qualified as "UJ".

**Semivolatiles** - Numerous instances of continuing calibration whose corresponding initial calibration has percent relative standard deviations outside primary criteria and continuing calibration with percent difference outside criteria are noted. The detections have been qualified "J" and the nondetections qualified as "UJ".

**Metals** - No problems are noted.

###### **3.1.1.2 Laboratory Control Samples**

No problems are noted.

###### **3.1.1.3 Method Blanks**

**Volatiles** - Where methylene chloride, acetone and 2-butanone are detected in the method blank, the accompanying samples are qualified "U" if the sample result is less than ten times the blank concentration.

**Semivolatiles** - Where pyrene is detected in the method blank the accompanying sample is qualified

“U” if the sample result is less than five times the blank concentration.

Where bis(2-ethylhexyl)phthalate is detected in the method blank the accompanying samples are qualified “U” if the sample results are less than ten times the blank concentration.

**Metals** - No serious blank problems were noted. Where calibration or preparation blanks contain low concentrations of analytes above the instrument detection limit the sample results are qualified “J” for the detections. No qualification is necessary for the nondetections.

#### **3.1.1.4 Laboratory Duplicates**

No problems are noted

#### **3.1.2 Soil Vapor**

This section presents an overview of the data validation performed by US EPA-Region 5 contractors using the National Functional Guidelines for Organic Data Review. The data is usable as noted here. Complete details can be found in the validation narratives provided in this appendix.

##### **3.1.2.1 Instrument Calibration**

No problems were noted.

##### **3.1.2.2 Laboratory Control Samples**

No problems were noted.

##### **3.1.2.3 Method Blanks**

Bromomethane was the only compound detected in any of the method blanks. The only impact is to sample 7704 from location TT-42. The bromomethane detected at 14 ng is qualified “U”.

#### **3.2 Sample Control**

##### **3.2.1 Surrogate and Internal Standard Recoveries**

###### **3.2.1.1 Soil and Ground Water**

**Volatiles** - There are a few instances of poor internal standard and surrogate standard recovery. Sample ECMN7 detections are qualified “J” and nondetections are qualified “UJ” except in the case

of a few compounds whose recoveries are outside expanded acceptable limits. These nondetections are unusable and are qualified "R".

**Semivolatiles** - There are a few instances of poor internal standard and surrogate recovery. Multiple compounds in the samples ECMQ2, ECMQ2RE, ECMM5 are qualified "J" for detections, "UJ" for nondetections except in the case of a few compounds whose recoveries are outside expanded acceptable limits. These nondetections are unusable and are qualified "R".

### 3.2.1.2 Soil Vapor

The recovery of 4-bromofluorobenzene in the sample from TT-28 was above the upper QC limit. The positive results for this sample should be considered estimated.

The recovery of 1,2,-dichloroethane-d4 in samples from TT-36, TT-37, and TT-38 exceed the upper QC limit. The positive results for these samples should be considered estimated. The recovery of 4-Bromofluorobenzene in the sample from TT-37 exceeds the upper QC limit. Since the positive results from this location are already qualified, no additional qualification is necessary.

### 3.2.2 Matrix Spike/Matrix Spike Duplicates

Matrix Spikes and Spike Duplicates are not applicable to the sorbent cartridges used to collect the soil vapor samples. The following discussion applies to soil and ground water samples only.

**Volatiles** - No problems are noted.

**Semivolatiles** - Where the relative percent difference between the matrix spike and spike duplicate compounds are outside criteria the samples are qualified "J".

**Metals** - Where the matrix spike recoveries are low the samples are qualified "J" for the detections and "UJ" for those analytes not detected except for the selenium results for samples collected from WT101A, WT101A Dup, WT115A, and WT116A. The selenium spike recovery for these samples was extremely low, at 26%, giving unusable results. The data has been qualified "R".

### 3.2.3 Method of Standard Additions (MSA) Analyses (Inorganic)

Several soil sample arsenic and lead results and two water lead results are qualified "J" because incorrect spike amounts were used.

### 3.2.4 Additional Soil Vapor Analysis Information

**Concentrations That Exceed The Calibration Range** - The following samples contain target analytes at concentrations that exceed the calibration range. The collection and analysis method does not provide for reanalysis of these samples. All applicable results have been qualified "E".

- The value for tetrachloroethene in samples from locations TT-29, TT-39 & Duplicate, and TT-22 are qualified "E".
- The values for tetrachloroethene and trichloroethene in samples from locations TT-40 and TT-26 are qualified "E".
- The value for vinyl chloride in the sample from location TT-26 is qualified "E".
- The value for trichloroethane in the sample from location TT-45 is qualified "E".

### 3.2.5 Compound Identification

1,2-Dichloroethane should not have been reported for the sample from TT-32 because the submitted mass spectrum indicates a cycloalkane. The value has been qualified "U".

## 4 Conclusions

### 4.1 Data Adequacy

The data met the data quality objectives for precision, accuracy, representativeness, comparability and completeness and is adequate for its intended use except for sensitivity. Review of the sample handling and analysis shows that the sample quality has not been negatively impacted by field or lab procedures. Qualifiers have been applied to the results to convey limitations of the analytical results. The qualifiers used are defined in Table 3-4. There are a few instances where data is unusable and those are qualified as rejected "R".

### 4.2 Restrictions on Data Use

The only notable data restriction observed for the soil and ground water data is that the Contract Laboratory Program contract required quantitation limits used for this work exceed the risk based screening levels for many compounds. Because of this restriction, the presence or absence of these compounds above the screening criteria cannot be definitively determined.

More sensitive methods are readily available and are recommended for any future sampling and analysis. The data quality objective process will ensure the chemical data meets the project needs.

**Quality Control Summary Tables  
1998 Supplemental Site Investigation**

Table 1-  
 Relative Percent Differences In Soil Duplicate Samples - Fall 1998  
 Himco Dump Superfund Site  
 Elkhart, Indiana

| Sample location              | SB06-0.5 |        |       | SB08-0.5 |        |      | SB10-0.5 |        |      | SB16-8 |        |       |
|------------------------------|----------|--------|-------|----------|--------|------|----------|--------|------|--------|--------|-------|
|                              | Result   | Result | RPD   | Result   | Result | RPD  | Result   | Result | RPD  | Result | Result | RPD   |
| <b>TOTAL METALS (mg/kg)</b>  |          |        |       |          |        |      |          |        |      |        |        |       |
| Aluminum                     | 4220     | 3000   | 34    | 2480     | 2500   | 33.8 | 4230     | 5670   | 29.1 | 4820   | 8860   | 59.1  |
| Arsenic                      | 2.1      | 1.4    | 40    | 1.1      | 1.7    | 43   | 1.5      | 1.4    | 6.9  | 4.7    | 5.5    | 16    |
| Barium                       | 51.8     | 47.7   | 8.2   | 14.1     | 13.4   | 5.09 | 51.7     | 55.1   | 6.37 | 54.3   | 95.7   | 55.2  |
| Beryllium                    | <        | <      | 0     | <        | <      | 0.0  | <        | <      | 0.0  | 0.80   | 0.90   | 12    |
| Calcium                      | 1750     | 1660   | 5.3   | 19600    | 2650   | 152  | 586      | 710    | 19.1 | 41200  | 85900  | 70.3  |
| Chromium                     | 4.5      | 5.5    | 20    | 5.7      | 5.4    | 5.4  | 5.5      | 7.0    | 24   | 13.1   | 11.3   | 14.8  |
| Cobalt                       | 3.3      | 1.9    | 54    | 3.1      | 2.8    | 10   | 3.4      | 3.3    | 3.0  | 3.8    | <      | NC    |
| Copper                       | 20.4     | 19.9   | 2.48  | 9.2      | 9.1    | 1.1  | 35.1     | 37.2   | 5.81 | 18.3   | 18.9   | 3.23  |
| Iron                         | 6200     | 4800   | 25    | 4750     | 4610   | 2.99 | 4780     | 5330   | 10.9 | 10800  | 16600  | 42.3  |
| Lead                         | 13.4     | 17.2   | 24.8  | 6.7      | 6.7    | 0.0  | 21.1     | 28.9   | 31.2 | 28.2   | 26.6   | 5.84  |
| Magnesium                    | 746      | 598    | 22.0  | 2380     | 1410   | 51.2 | 559      | 766    | 31.2 | 5460   | 7860   | 36.0  |
| Manganese                    | 337      | 296    | 13.0  | 172      | 144    | 17.7 | 317      | 319    | 0.63 | 228    | 588    | 58.2  |
| Nickel                       | 9.6      | 7.0    | 31    | 7.0      | 9.5    | 30   | 8.1      | 8.1    | 0.0  | 11.8   | 12.1   | 2.51  |
| Potassium                    | 219      | <      | NC    | 264      | <      | NC   | <        | 297    | NC   | 283    | 450    | 45.6  |
| Selenium                     | <        | <      | 0.0   | <        | <      | 0    | <        | <      | 0.0  | 1.4    | 1.3    | 7.4   |
| Sodium                       | 24.8     | <      | NC    | 36.2     | 37.6   | 3.79 | 34.3     | 45.5   | 28.1 | 219    | 378    | 53.3  |
| Vanadium                     | 8.5      | 7.0    | 19    | 7.2      | 8.8    | 20   | 10.1     | 10.4   | 2.93 | <      | 15.1   | NC    |
| Zinc                         | 52.3     | 45.0   | 15.0  | 26.2     | 22.2   | 16.5 | 58.3     | 68.9   | 16.7 | 78.0   | 78.6   | 0.766 |
| Cyanide                      | 0.30     | <      | 100.0 | 0.56     | 0.37   | 41   | 4.2      | 0.58   | 151  | 1.0    | 0.50   | 67    |
| <b>VOLATILES (µg/kg)</b>     |          |        |       |          |        |      |          |        |      |        |        |       |
| 1,1-Dichloroethane           | <        | <      | 0     | <        | <      | 0    | <        | <      | 0    | 1      | 2      | 67    |
| Benzene                      | <        | <      | 0     | <        | <      | 0    | <        | <      | 0    | 3      | 4      | 29    |
| Ethylbenzene                 | <        | <      | 0     | <        | <      | 0    | <        | <      | 0    | 12     | 14     | 15    |
| Xylene (total)               | <        | <      | 0     | <        | <      | 0    | <        | <      | 0    | 7      | 9      | 25    |
| <b>SEMIVOLATILES (µg/kg)</b> |          |        |       |          |        |      |          |        |      |        |        |       |
| 1,2-Dichlorobenzene          | <        | <      | 0     | <        | <      | 0    | <        | <      | 0    | 98     | 63     | 43    |
| Naphthalene                  | <        | <      | 0     | <        | <      | 0    | <        | <      | 0    | 120    | 130    | 8.0   |
| Diethylphthalate             | <        | <      | 0     | <        | <      | 0    | <        | <      | 0    | 64     | 46     | 33    |
| Phenanthrene                 | <        | <      | 0     | <        | <      | 0    | <        | <      | 0    | 270    | 250    | 7.7   |
| Anthracene                   | <        | <      | 0     | <        | <      | 0    | <        | <      | 0    | 53     | 57     | 7.3   |
| Pyrene                       | <        | <      | 0     | <        | <      | 0    | <        | <      | 0    | 670    | 610    | 9.4   |
| Benzo(a)anthracene           | <        | <      | 0     | <        | <      | 0    | <        | <      | 0    | 400    | 350    | 13    |
| Chrysene                     | <        | <      | 0     | <        | <      | 0    | <        | <      | 0    | 450    | 400    | 12    |
| bis(2-Ethylhexyl)phthalate   | <        | <      | 0     | 440      | 470    | 6.6  | 140      | 150    | 6.9  | 270    | 120    | 77    |
| Di-n-octylphthalate          | <        | <      | 0     | <        | <      | 0    | 56       | 70     | 22   | <      | <      | 0.0   |
| Benzo(b)fluoranthene         | <        | <      | 0     | <        | <      | 0    | <        | <      | 0    | 750    | 430    | 54    |
| Benzo(k)fluoranthene         | <        | <      | 0     | <        | <      | 0    | <        | <      | 0    | 900    | 440    | 69    |
| Benzo(a)pyrene               | <        | <      | 0     | <        | <      | 0    | <        | <      | 0    | 530    | 450    | 16    |
| Indeno(1,2,3-cd)pyrene       | <        | <      | 0     | <        | <      | 0    | <        | <      | 0    | 380    | 360    | 5.4   |
| Dibenz(a,h)anthracene        | <        | <      | 0     | <        | <      | 0    | <        | <      | 0    | 160    | 150    | 6.5   |
| Benzo(g,h,i)perylene         | <        | 250    | NC    | <        | <      | 0    | <        | <      | 0    | 280    | 250    | 11    |

Table 1-2  
 Relative Percent Differences In Ground Water Duplicate Samples - Fall 1998  
 Himco Dump Superfund Site  
 Elkhart, Indiana

| Sample location<br>Units | WT101A<br>µg/L |        |      | WT119A<br>µg/L |        |       |
|--------------------------|----------------|--------|------|----------------|--------|-------|
|                          | Result         | Result | RPD  | Result         | Result | RPD   |
| <b>TOTAL METALS</b>      |                |        |      |                |        |       |
| Aluminum                 | <              | <      | 0.0  | 258            | 249    | 3.55  |
| Arsenic                  | 3.6            | 3.3    | 8.7  | 5.8            | 5.3    | 9.0   |
| Barium                   | 91.2           | 85.5   | 6.45 | 78.3           | 76.0   | 2.98  |
| Calcium                  | 377000         | 361000 | 4.3  | 143000         | 142000 | 0.70  |
| Chromium                 | 13.1           | 11.3   | 14.8 | 7.8            | <      | NC    |
| Copper                   | <              | <      | 0.0  | 5.4            | 4.9    | 9.7   |
| Iron                     | 28100          | 26900  | 4.36 | 1690           | 1690   | 0.0   |
| Lead                     | <              | <      | 0.0  | 3.4            | 2.4    | 34    |
| Magnesium                | 14700          | 13900  | 5.59 | 44800          | 44500  | 0.672 |
| Manganese                | 3080           | 2940   | 4.65 | 279            | 278    | 0.359 |
| Potassium                | 3630           | 3630   | 0.00 | 11500          | 11200  | 2.64  |
| Selenium                 | 3.0            | 3.0    | 0.0  | 6.0            | 6.0    | 0.0   |
| Sodium                   | 35800          | 33100  | 7.84 | 69100          | 68200  | 1.31  |
| Cyanide                  | 17.9           | 14.4   | 21.7 | 12.0           | 15.2   | 23.5  |
| <b>SEMIVOLATILES</b>     |                |        |      |                |        |       |
| Diethylphthalate         | 19             | 9      | 71   | <              | <      | 0     |

No volatile compounds detected.

NC: Not calculated because one of the samples from the duplicate pair was nondetect while the compound was detected in the duplicate.

Shading indicates an RPD of greater than 50%.

Table 1-3  
 Relative Percent Differences in Soil Gas Duplicate Samples - Fall 1998  
 Himco Dump Superfund Site  
 Elkhart, Indiana

| Sample Location<br>Units: ug/m | TT-14  |        |      | TT-26   |        |      | TT-39  |        |     | TT-46  |        |     |
|--------------------------------|--------|--------|------|---------|--------|------|--------|--------|-----|--------|--------|-----|
|                                | Result | Result | RPD  | Result  | Result | RPD  | Result | Result | RPD | Result | Result | RPD |
| <b>Analyte</b>                 |        |        |      |         |        |      |        |        |     |        |        |     |
| Vinyl Chloride                 | 77     | 100    | 26   | 22000   | 23000  | 4    | <      | <      | 0   | <      | <      | 0   |
| Bromomethane                   | 1.0    | <      | NC   | <       | <      | 0    | <      | <      | 0   | <      | <      | 0   |
| Chloroethane                   | 36     | <      | NC   | <       | <      | 0    | <      | <      | 0   | <      | <      | 0   |
| 1,1-Dichloroethene             | 6.8    | <      | NC   | 310     | <      | NC   | <      | <      | 0   | <      | <      | 0   |
| Carbon Disulfide               | 86     | 132    | 42   | 3000.00 | 6300   | 71   | 0.45   | 0.26   | 52  | 1.4    | 0.63   | 74  |
| Acetone                        | <      | <      | 0    | <       | <      | 0    | <      | <      | 0   | 2.3    | <      | NC  |
| Methylene Chloride             | 6.8    | <      | NC   | <       | <      | 0    | <      | <      | 0   | <      | <      | 0   |
| trans-1,2-Dichloroethene       | 12     | <      | NC   | <       | <      | 0    | <      | <      | 0   | <      | <      | 0   |
| 1,1-Dichloroethane             | 500    | 2400   | 131  | 440.00  | <      | NC   | <      | <      | 0   | 1.5    | 0.94   | 48  |
| 2-Butanone                     | <      | <      | 0    | <       | <      | 0    | <      | <      | 0   | <      | <      | 0   |
| Chloroform                     | <      | <      | 0    | 280     | <      | NC   | <      | <      | 0   | 1.7    | 1.0    | 48  |
| 1,1,1-Trichloroethane          | 250    | 300    | 18   | <       | <      | 0    | 0.76   | 0.67   | 13  | 5.9    | 3.4    | 53  |
| Carbon Tetrachloride           | 40     | <      | NC   | <       | <      | 0    | <      | <      | 0   | <      | <      | 0   |
| Benzene                        | 180    | 200    | 10.5 | 221     | <      | NC   | <      | <      | 0   | 0.27   | <      | NC  |
| 1,2-Dichloroethane             | <      | <      | 0    | <       | <      | 0    | <      | <      | 0   | <      | <      | 0   |
| Trichloroethene                | 270    | 270    | 0.00 | 15000   | 21000  | 33   | <      | <      | 0   | 0.28   | <      | NC  |
| 1,2-Dichloropropane            | 25     | <      | NC   | <       | <      | 0    | <      | <      | 0   | <      | <      | 0   |
| trans-1,3-Dichloropropene      | <      | <      | 0    | <       | <      | 0    | <      | <      | 0   | <      | <      | 0   |
| Toluene                        | 95     | 91     | 5    | 11000   | 13000  | 17   | 2.4    | 0.71   | 110 | 3.6    | 0.80   | 130 |
| cis-1,3-Dichloropropene        | <      | <      | 0    | <       | <      | 0    | <      | <      | 0   | <      | <      | 0   |
| Tetrachloroethene              | 230    | 260    | 12   | 44000   | 80000  | 58   | 107    | 89     | 19  | 7.2    | 5.4    | 29  |
| 2-Hexanone                     | <      | <      | 0    | <       | <      | 0    | <      | <      | 0   | <      | <      | 0   |
| Chlorobenzene                  | 11     | <      | NC   | <       | <      | 0    | <      | <      | 0   | <      | <      | 0   |
| Ethyl Benzene                  | 420    | 340    | 21   | 10000   | 15000  | 40   | <      | <      | 0   | 0.30   | <      | NC  |
| m,p-Xylene                     | 730    | 400    | 58   | 5700    | 8500   | 39   | <      | <      | 0   | 0.54   | <      | NC  |
| o-Xylene                       | 390    | 320    | 20   | 1400    | 2000   | 35   | <      | <      | 0   | <      | <      | 0   |
| Styrene                        | 13     | <      | NC   | 360     | <      | NC   | <      | <      | 0   | <      | <      | 0   |
| cis-1,2-Dichloroethene         | 290    | 246    | 17   | 1900    | 1700   | 11.1 | <      | <      | 0   | <      | <      | 0   |

NC: Not calculated because one of the samples from the duplicate pair was nondetect while the compound was detected in the duplicate.

Shading indicates an RPD of greater than 50%.

Table 1-4  
Ground Water Equipment Blank Summary - Fall 1998  
Himco Dump Superfund Site  
Elkhart, Indiana

| Sample location<br>Sample number<br>Date sampled<br>Units | WT115A rinsate blank<br>MEBQJ1<br>10/21/1998<br>µg/L | WT119A rinsate blank<br>MEBQJ5<br>10/22/1998<br>µg/L |
|---|--|--|
| <b>TOTAL METALS</b>                                       |  |  |
| Aluminum  | 26.0 U   | 26.0 U   |
| Antimony  | 42.2 U   | 45.4 J   |
| Arsenic   | 0.90 UJ  | 0.90 U   |
| Barium  | 1.9 U  | 1.9 U  |
| Beryllium   | 0.60 U   | 0.60 UJ  |
| Cadmium   | 4.6 U  | 4.6 U  |
| Calcium   | 68.4 J   | 69.3 J   |
| Chromium  | 7.0 U  | 7.0 U  |
| Cobalt  | 7.8 U  | 7.8 U  |
| Copper  | 4.1 U  | 4.1 J  |
| Iron  | 12.8 J   | 11.7 U   |
| Lead  | 0.50 U   | 0.50 U   |
| Magnesium   | 50.1 U   | 50.1 U   |
| Manganese   | 2.9 U  | 2.9 U  |
| Mercury   | 0.10 U   | 0.10 U   |
| Nickel  | 28.3 U   | 28.3 U   |
| Potassium   | 926 U  | 926 U  |
| Selenium  | 0.60 R   | 0.60 J   |
| Silver  | 5.3 U  | 5.3 U  |
| Sodium  | 81.6 U   | 274 J  |
| Thallium  | 0.40 U   | 0.40 U   |
| Vanadium  | 12.3 U   | 12.3 U   |
| Zinc  | 11.2 J   | 8.8 J  |
| Cyanide   | 12.0 J   | 2.0 UJ   |
| <b>SEMIVOLATILE ORGANICS</b>                              |  |  |
| Sample number   | ECMQ3  | ECMR1  |
| bis(2-Ethylhexyl)phthalate                                | 10 U   | 3 J  |

Shading indicates the constituent was detected.

No volatile compounds were detected.

No semivolatile compounds were detected with the exception of bis (2-ethylhexyl)phthalate.

Table 1-5  
 Summary of Soil Gas Sampling Ambient Air and Equipment Blank Results - Fall 1998  
 Himco Dump Superfund Site  
 Elkhart, Indiana

| Sample Location<br>Sample Description | TT-12<br>Ambient Air<br>Blank | TT-12<br>Equipment<br>Blank | TT-27<br>Ambient Air<br>Blank | TT-27<br>Equipment<br>Blank |
|---------------------------------------|-------------------------------|-----------------------------|-------------------------------|-----------------------------|
| <b>Analyte</b>                        | $\mu\text{g}/\text{m}^3$      | $\mu\text{g}/\text{m}^3$    | $\mu\text{g}/\text{m}^3$      | $\mu\text{g}/\text{m}^3$    |
| Chloromethane                         | ND                            | ND                          | ND                            | 0.66                        |
| Vinyl Chloride                        | ND                            | 1.6                         | ND                            | ND                          |
| 1,1-Dichloroethene                    | ND                            | 0.33                        | ND                            | ND                          |
| Carbon Disulfide                      | ND                            | 2.6                         | 0.42                          | 1.6                         |
| Acetone                               | 3.5                           | 11                          | ND                            | ND                          |
| Methylene Chloride                    | 1.3                           | ND                          | 60                            | 29                          |
| trans-1,2-Dichloroethene              | ND                            | ND                          | 0.40                          | ND                          |
| 2-Butanone                            | ND                            | 3.6                         | ND                            | ND                          |
| 1,1,1-Trichloroethane                 | ND                            | 4.3                         | ND                            | ND                          |
| Carbon Tetrachloride                  | 0.41                          | ND                          | 0.44                          | 0.41                        |
| Benzene                               | 2.3                           | 2.2                         | 2.9                           | 2.7                         |
| Trichloroethene                       | ND                            | ND                          | ND                            | ND                          |
| Toluene                               | 2.9                           | 0.47                        | 5.1                           | 4.7                         |
| Tetrachloroethene                     | 0.67                          | 0.57                        | ND                            | 0.66                        |
| Ethyl Benzene                         | 0.81                          | ND                          | 0.97                          | 0.90                        |
| m,p-Xylene                            | 1.6                           | ND                          | 2.5                           | 2.3                         |
| o-Xylene                              | 0.45                          | ND                          | 0.92                          | 0.71                        |
| Styrene                               | 1.2                           | ND                          | 1.4                           | 2.4                         |
| cis-1,2-Dichloroethene                | ND                            | ND                          | 0.30                          | ND                          |

Table 1-6  
 Summary of Compounds Detected in Soil Gas Trip Blank Samples - Fall 1998  
 Himco Dump Superfund Site  
 Elkhart, Indiana

| Sample Location     | Trip Blank | Trip Blank | Trip Blank | Trip Blank | Trip Blank | Trip Blank |
|---------------------|------------|------------|------------|------------|------------|------------|
| Sample Tube Numbers | 7119A & B  | 7204A & B  | 7101A & B  | 7217A & B  | 7205A & B  | 7111A & B  |
| Compound            | ng         | ng         | ng         | ng         | ng         | ng         |
| Bromomethane        | <10        | <10        | <17        | <10        | <17        | <13        |
| Carbon Disulfide    | <5.0       | <5.0       | 16         | <5.0       | 11         | 7.3        |
| Benzene             | <5.0       | <5.0       | 43         | <5.0       | <8.5       | 37         |
| Toluene             | <5.0       | <5.0       | <8.5       | <5.0       | <8.5       | 7.6        |
| Tetrachloroethene   | <5.0       | <5.0       | <8.5       | <5.0       | <8.5       | 22         |
| Ethyl Benzene       | <5.0       | <5.0       | <8.5       | <5.0       | <8.5       | 6.5        |
| m,p-Xylene          | <5.0       | <5.0       | <8.5       | <5.0       | <8.5       | 14         |

| Sample Location     | Trip Blank | Trip Blank | Trip Blank | Trip Blank | Trip Blank |
|---------------------|------------|------------|------------|------------|------------|
| Sample Tube Numbers | 7705A & B  | 7712A & B  | 7715A & B  | 7113A & B  | 7904A & B  |
| Compound            | ng         | ng         | ng         | ng         | ng         |
| Bromomethane        | 23         | 13         | <10        | <10        | <10        |
| Carbon Disulfide    | <6.5       | <5.0       | <5.0       | <5.0       | <5.0       |
| Benzene             | 46         | <5.0       | <5.0       | <5.0       | <5.0       |
| Toluene             | 17         | <5.0       | <5.0       | <5.0       | <5.0       |
| Tetrachloroethene   | <6.5       | <5.0       | <5.0       | <5.0       | <5.0       |
| Ethyl Benzene       | <6.5       | <5.0       | <5.0       | <5.0       | <5.0       |
| m,p-Xylene          | 16         | <5.0       | <5.0       | <5.0       | <5.0       |

**1998**  
**Soil, Ground Water, and Soil Gas**  
**Analytical Results Reports**

Regional Transmittal Form

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION V

DATE: 11-23-98

SUBJECT: Review of Data  
Received for Review on Nov 9, 1998

FROM: Stephen L. Ostrodka, Chief (HSRL-5J)  
Superfund Technical Support Section / LF

TO: Data User: USACE

We have reviewed the data for the following case:

SITE NAME: Himesco Dump (IN)

CASE NUMBER: 26593 SDG NUMBER: MEBQHO

Number and Type of Samples: 8 (Water/soil) metals

Sample Numbers: MEBQHO-2, 6-7 MEBQJ3-5

Laboratory: SVL Hrs. for Review: 8 hrs.

Following are our findings:

+1

All data are usable with the qualifications described in the attached narrative.

L. FINKELBERG

11-23-98

CC: Cecilia Moore  
Region 5 TPO  
Mail Code: SM-5J

Case Number: 26593  
Site Name: Himco Dump

SDG Number: MEBQH0  
Laboratory: SVL

Below is a summary of the out-of-control audits and the possible effects on the data for this case:

3 low-level water and 5 low-level soil samples, numbered MEBQJ3-5, MEBQH0-2,6-7, the soil samples were collected on 10/21/98 and the water samples on 10/22/98. The lab received the soil samples on 10/22/98 and the water on 10/23/98 in good condition. All samples were analyzed for metals. All samples were analyzed using CLP SOW ILM04.0 analysis procedure.

Mercury analysis was performed using a Cold Vapor AA Technique. The remaining inorganic analyses were performed using an Inductively Coupled Plasma-Atomic Emission Spectrometric procedure.

Reviewed By: T. Balikji-Shammo

Date: November 12, 1998

Case Number: 26593  
Site Name: Himco Dump

SDG Number: MEBQH0  
Laboratory: SVL

HOLDING TIME:

HOLDING TIME CRITERIA

Inorganic

|         | -- Holding Time -- |          | ----- pH ----- |          |
|---------|--------------------|----------|----------------|----------|
|         | Primary            | Expanded | Primary        | Expanded |
| Metals  | 180                | 0        | 2.0            | 0.0      |
| Mercury | 28                 | 0        | 2.0            | 0.0      |
| Cyanide | 14                 | 0        | 12.0           | 0.0      |

DC-280: The following inorganic soil samples were reviewed for holding time violations using criteria developed for water samples.

MEBQH0, MEBQH1, MEBQH2, MEBQH6, MEBQH7

2. CALIBRATIONS:

CALIBRATION CRITERIA

Inorganic

Percent Recovery Limits

|         | --- Primary --- |        | -- Expanded -- |        |
|---------|-----------------|--------|----------------|--------|
|         | Low             | High   | Low            | High   |
| ICP     | 90.00           | 110.00 | 75.00          | 125.00 |
| Mercury | 80.00           | 120.00 | 65.00          | 135.00 |

No problems were found for this qualification.

Reviewed By: T. Balikji-Shammo

Date: November 12, 1998

Case Number: 26593  
Site Name: Himco Dump

SDG Number: MEBQH0  
Laboratory: SVL

3. BLANKS:

LABORATORY BLANKS CRITERIA  
-----

DC-283: The following inorganic samples are associated with a blank analyte with negative concentration whose absolute value is greater than the instrument detection limit (IDL). The sample concentration is also greater than the IDL and less than five times the absolute value of the blank. Hits are flagged "J". Some non-detect reading are sufficiently high that the detection limit may be elevated. These non-detect are flagged "UJ".

Zinc

MEBQJ3, MEBQJ4, MEBQJ5

Cyanide

MEBQJ5

DC-284: Sample MEBQJ5 is a field blank. The following inorganic samples are associated with a calibration, preparation, or field blank concentration which is greater than the instrument detection limit (IDL). The sample concentration is also greater than the IDL and less than five times the blank concentration. Hits are qualified "J"; non-detects are acceptable.

Aluminum

MEBQJ3, MEBQJ4

Antimony

MEBQJ3, MEBQJ5, MEBQH1, MEBQH6

Beryllium

MEBQH0, MEBQH1, MEBQH2, MEBQH6

Calcium

MEBQJ5

Lead

MEBQJ3, MEBQJ4

Sodium

MEBQJ5

Reviewed By: T. Balikji-Shammo

Date: November 12, 1998

Case Number: 26593  
Site Name: Himco Dump

SDG Number: MEBQH0  
Laboratory: SVL

Cyanide

MEBQH0, MEBQH2, MEBQH6, MEBQJ3

DC-338: During review of the following inorganic samples, the reported IDL/default CRDL value was used for cyanide.

MEBQH0, MEBQH1, MEBQH2, MEBQH6, MEBQH7, MEBQJ3, MEBQJ4, MEBQJ5

4. MATRIX SPIKE/MATRIX SPIKE DUPLICATE AND LAB CONTROL SAMPLE:

MATRIX SPIKE CRITERIA

-----

Inorganic

-----

Percent Recovery Limits

-----

|               |       |
|---------------|-------|
| Upper         | 125.0 |
| Lower         | 75.0  |
| Extreme lower | 30.0  |

DC-268: The following inorganic samples are associated with a matrix spike recovery which is low (30-74 %) indicating that sample results may be biased low.

Hits are qualified "J" and non-detects are qualified "UJ".

Antimony

MEBQH0, MEBQH1, MEBQH2, MEBQH6, MEBQH7

Arsenic

MEBQH0, MEBQH1, MEBQH2, MEBQH6, MEBQH7

Selenium

MEBQJ3, MEBQJ4, MEBQJ5

No problems were found for the lab control sample.

Reviewed By: T.Balikji-Shammo

Date: November 12, 1998

Case Number: 26593  
Site Name: Himco Dump

SDG Number: MEBQH0  
Laboratory: SVL

No problems were found for the lab control sample.

5. LABORATORY AND FIELD DUPLICATE

Samples MEBQJ3 and MEBQJ4 are field duplicates with good correlation.

5. ICP ANALYSIS

No problems were found for this qualification.

7. GFAA ANALYSIS

No problems were found for this qualification.

8. SAMPLE RESULTS

All data, except those qualified above, are acceptable.

Reviewed By: T. Balikji-Shammo

Date: November 12, 1998

FILE NAME: MEBQHO DATE: 11/06/98 TIME: 15:01

CRITERIA FILE: FGDR194

DATA

| Original | |X| Qualified

QUALIFICATIONS PERFORMED

|   |                    |   |                             |
|---|--------------------|---|-----------------------------|
| X | Quantitation Limit | X | CRDL Standards              |
| X | Percent Moisture   | X | ICS                         |
| X | Holding Time       | X | LCS                         |
| X | Calibrations       | X | Duplicates                  |
| X | Matrix Spikes      | X | Furnace AA QC               |
|   | IPC                | X | ICP Serial Dilutions        |
|   | Internal Standards | X | Sample Results Verification |
|   | SMC/Surrogates     | X | Laboratory Blanks           |
|   | System Performance |   | Field QC                    |
|   | Sample Cleanup     |   |                             |

PRINT NON-DETECTS

X| Yes | | No

PRINT REJECTED RESULTS

| Yes | | No

CADRE Data Qualifier Sheet

Qualifiers

Data Qualifier Definitions

- U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- J The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.
- UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the action limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
- R The data are unusable. (The compound may or may not be present)

Case #: 26593  
 Site: Himco Dump  
 Lab.: SVL  
 Reviewer: T.Balikji-Shammo  
 Date: November 12, 1998

|                    |          |          |          |  |  |  |  |  |  |
|--------------------|----------|----------|----------|--|--|--|--|--|--|
| Sample Number:     | MEBQJ3   | MEBQJ4   | MEBQJ5   |  |  |  |  |  |  |
| Sampling Location: | WT119A   | WT119A   | WT119A   |  |  |  |  |  |  |
| Matrix:            | Water    | Water    | Water    |  |  |  |  |  |  |
| Units:             | ug/L     | ug/L     | ug/L     |  |  |  |  |  |  |
| Date Sampled:      | 10/22/98 | 10/22/98 | 10/22/98 |  |  |  |  |  |  |
| % Solids:          | 0.0      | 0.0      | 0.0      |  |  |  |  |  |  |
| Dilution Factor:   | 1.0      | 1.0      | 1.0      |  |  |  |  |  |  |

| ANALYTE | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag |
|-----------|--------|------|--------|------|--------|------|--------|------|--------|------|
| Aluminum  | 258    | J    | 249    | J    | 26.0   | U    |        |      |        |      |
| Antimony  | 43.2   | J    | 42.2   | U    | 45.4   | J    |        |      |        |      |
| Arsenic   | 5.8    | J    | 5.3    |      | 0.90   | U    |        |      |        |      |
| Barium    | 78.3   |      | 76.0   |      | 1.9    | U    |        |      |        |      |
| Beryllium | 0.60   | UJ   | 0.60   | UJ   | 0.60   | UJ   |        |      |        |      |
| Cadmium   | 4.6    | U    | 4.6    | U    | 4.6    | U    |        |      |        |      |
| Calcium   | 143000 |      | 14200  |      | 69.3   | J    |        |      |        |      |
| Chromium  | 7.8    |      | 7.0    | U    | 7.0    | U    |        |      |        |      |
| Cobalt    | 7.8    | U    | 7.8    | U    | 7.8    | U    |        |      |        |      |
| Copper    | 5.4    |      | 4.9    |      | 4.1    | U    |        |      |        |      |
| Iron      | 1690   |      | 1690   |      | 11.7   | U    |        |      |        |      |
| Lead      | 3.4    | J    | 2.4    | J    | 0.50   | U    |        |      |        |      |
| Magnesium | 44800  |      | 44500  |      | 50.1   | U    |        |      |        |      |
| Manganese | 279    |      | 278    |      | 2.9    | U    |        |      |        |      |
| Mercury   | 0.10   | U    | 0.10   | U    | 0.10   | U    |        |      |        |      |
| Nickel    | 28.3   | U    | 28.3   | U    | 28.3   | U    |        |      |        |      |
| Potassium | 11500  | J    | 11200  | J    | 926    | U    |        |      |        |      |
| Selenium  | 6.0    | J    | 6.0    | J    | 0.60   | J    |        |      |        |      |
| Silver    | 5.3    | U    | 5.3    | U    | 5.3    | U    |        |      |        |      |
| Sodium    | 69100  |      | 68200  |      | 274    | J    |        |      |        |      |
| Thallium  | 0.40   | U    | 0.40   | U    | 0.40   | U    |        |      |        |      |
| Vanadium  | 12.3   | U    | 12.3   | U    | 12.3   | U    |        |      |        |      |
| Zinc      | 4.9    | J    | 4.9    | J    | 8.8    | J    |        |      |        |      |
| Cyanide   | 12.0   | J    | 15.2   |      | 2.0    | UJ   |        |      |        |      |

Analytical Results (Qualified Data Page 2 of 2)

Case #: 26593  
 Site: Himco Dump  
 Lab. : SVL  
 Reviewer: T.Balikji-Shammo  
 Date: November 12, 1998

| Sample Number:     | MEBQH0   | MEBQH1   | MEBQH2   | MEBQH6   | MEBQH7   |
|--------------------|----------|----------|----------|----------|----------|
| Sampling Location: | SB11-0.5 | SB11-2   | SB11-6   | SB07-0.5 | SB07-2   |
| Matrix:            | Soil     | Soil     | Soil     | Soil     | Soil     |
| Units:             | mg/kg    | mg/kg    | mg/kg    | mg/kg    | mg/kg    |
| Date Sampled:      | 10/21/98 | 10/21/98 | 10/21/98 | 10/21/98 | 10/21/98 |
| % Solids:          | 94.5     | 96.0     | 95.6     | 95.2     | 97.2     |
| Dilution Factor:   | 1.0      | 1.0      | 1.0      | 1.0      | 1.0      |

| ANALYTE | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag |
|-----------|--------|------|--------|------|--------|------|--------|------|--------|------|
| Aluminum  | 4740   |      | 3360   |      | 4270   |      | 3100   |      | 1730   |      |
| Antimony  | 8.9    | UJ   | 9.2    | J    | 8.8    | UJ   | 13.1   | J    | 8.7    | UJ   |
| Arsenic   | 12.5   | J    | 4.7    | J    | 2.8    | J    | 2.3    | J    | 0.70   | J    |
| Barium    | 102    |      | 57.0   |      | 55.8   |      | 13.0   |      | 7.8    |      |
| Beryllium | 0.50   | J    | 0.20   | J    | 0.20   | J    | 0.20   | J    | 0.10   | UJ   |
| Cadmium   | 1.1    |      | 1.0    | U    | 1.0    | U    | 1.0    | U    | 0.90   | U    |
| Calcium   | 21900  |      | 26400  |      | 7620   |      | 1320   |      | 2140   |      |
| Chromium  | 12.6   |      | 9.2    |      | 17.2   |      | 6.0    |      | 5.1    |      |
| Cobalt    | 3.2    |      | 3.4    |      | 6.8    |      | 4.0    |      | 1.9    |      |
| Copper    | 149    |      | 46.1   |      | 45.9   |      | 7.4    |      | 6.4    |      |
| Iron      | 11100  |      | 8820   |      | 21200  |      | 5240   |      | 4390   |      |
| Lead      | 160    | J    | 92.9   | J    | 186    | J    | 5.2    |      |        |      |
| Magnesium | 5950   |      | 11400  |      | 2580   |      | 1140   |      | 1160   |      |
| Manganese | 492    |      | 278    |      | 398    |      | 133    |      | 44.7   |      |
| Mercury   | 0.20   |      | 0.20   |      | 0.20   |      | 0.05   | U    | 0.05   | U    |
| Nickel    | 12.0   |      | 5.9    | U    | 10.0   |      | 6.0    |      | 5.8    | U    |
| Potassium | 462    |      | 287    |      | 377    |      | 234    |      | 226    |      |
| Selenium  | 0.10   | UJ | 0.10 | UJ | 0.10 | UJ | 0.10 | UJ | 0.10 | UJ |
| Silver | 1.1 | U | 1.1 | U | 1.1 | U | 1.1 | U | 1.1    | U    |
| Sodium    | 127    |      | 54.7   |      | 49.1   |      | 41.6   |      | 16.8   | U    |
| Thallium  | 0.10   |      | 0.08   | U    | 0.08   | U    | 0.10   | J    | 0.08   | UJ   |
| Vanadium  | 11.3   |      | 8.9    |      | 11.3   |      | 8.1    |      | 4.7    |      |
| Zinc      | 294    |      | 136    |      | 109    |      | 20.2   |      | 40.0   |      |
| Cyanide   | 0.40   | J    | 0.10   | UJ   | 0.30   | J    | 0.20   | J    | 0.10   | UJ   |

## DATA QUALIFIER DEFINITIONS

For the purpose of defining the flagging nomenclature utilized in this document, the following code letters and associated definitions are provide:

- U Indicates the material was analyzed, but was not detected above the level of the associated value. The associated value is either the sample quantitation limit or the sample detection limit.
- J Indicates the associated value is an estimated quantity.
- R Indicates the data are unusable. (Note: The analyte may or may not be present.)
- UJ Indicates the material was analyzed for, but was not detected. The associated value is an estimate and may be inaccurate or imprecise.
- E Indicates the reported value is estimated because of the presence of interferences. An explanatory note shall be included under Comments on the Cover Page (if the problem applies to all samples) or on the specific FORM I-IN (if it is an isolated problem).
- M Indicates duplicate injection precision is not met.
- N Indicates the spike sample recovery is not within control limits.
- S Indicates the reported value was determined by the Method of Standard Addition (MSA).
- W Indicates the post-digestion spike for furnace AA analysis is out of control limits (85%-115%), while sample absorbance is less than 50% of the spike absorbance.
- + Indicates the correlation coefficient for the MSA is less than 0.995.
- \* Indicates the duplicate analysis is not within control limits.

Note: Entering "S", "W" or "+" is mutually exclusive. No combination of these qualifiers can appear in the same field for an analyte.

QC EXTENSION SUMMARY REPORT

CASE/SAS#: 26593

SITE: Himco Dump (IN)

MATRIX: water

WATER SAMPLE SPK: \_\_\_\_\_

DATA SET: \_\_\_\_\_

LAB: SIL

CONC: \_\_\_\_\_

WATER SAMPLE DUP: \_\_\_\_\_

LAB QC # \_\_\_\_\_

REVIEWED BY: Tania Balikji-Shammo

SOIL SAMPLE SPK: \_\_\_\_\_

DATE: 11-9-98

SOIL SAMPLE DUP: \_\_\_\_\_

| FORM 1    | FORM 2     | FORM 3        | FORM 4       | FORM 5      | FORM 6           | FORM 7          | FORM 8 | FORM 9          | FORM 10      | FORM 11 | FORM 12  | FORM 13                 | FORM 14              | FORM 15    | FORM 16     | FORM 17 | FORM 18 | FORM 19 | FORM 20 | FORM 21  | FORM 22         | FORM 23 | FORM 24 |  |  |
|-----------|------------|---------------|--------------|-------------|------------------|-----------------|--------|-----------------|--------------|---------|----------|-------------------------|----------------------|------------|-------------|---------|---------|---------|---------|----------|-----------------|---------|---------|--|--|
| ELEMENT   | HOLD T/DGE | INITIAL CALIB | CONTIN CALIB | CALIB BLANK | PREP WATER BLANK | PREP SOIL BLANK | ICE SR | FORM 8 SPIKE SR | SOIL DUP R/D | LCS AQ  | LCS SOIL | SERIAL DILUTION AQUEOUS | SERIAL DILUTION SOIL | AQ DUP R/D | AQ SPIKE SR | BLANK   | DUP R/D | BLANK   | DUP R/D | GTAA DUP | GTAA ANAL SPIKE |         |         |  |  |
| ALUMINUM  |            |               |              | 54.3        |                  |                 |        |                 |              |         |          | 15.3                    |                      |            |             |         |         |         |         |          |                 |         |         |  |  |
| ANTIMONY  |            |               |              |             |                  |                 |        |                 |              |         |          | 407.1                   |                      | 200.0      |             |         |         |         |         |          |                 |         |         |  |  |
| ARSENIC   |            |               |              |             |                  |                 |        |                 | 57.5         |         |          |                         |                      |            |             |         |         |         |         |          |                 |         |         |  |  |
| BARIUM    |            |               |              |             |                  |                 |        |                 |              |         |          |                         |                      |            |             |         |         |         |         |          |                 |         |         |  |  |
| BERYLLIUM |            |               |              | 6.8         |                  |                 |        |                 |              |         |          |                         |                      |            |             |         |         |         |         |          |                 |         |         |  |  |
| CADMIUM   |            |               |              |             |                  |                 |        |                 |              |         |          |                         |                      |            |             |         |         |         |         |          |                 |         |         |  |  |
| CALCIUM   |            |               |              | 40.621      |                  |                 |        |                 | 61.6         |         |          |                         |                      |            |             |         |         |         |         |          |                 |         |         |  |  |
| CHROMIUM  |            |               |              |             |                  |                 |        |                 |              |         |          | 100.0                   |                      | 200.0      |             |         |         |         |         |          |                 |         |         |  |  |
| CORALY    |            |               |              | 8.8         |                  |                 |        |                 |              |         |          |                         |                      |            |             |         |         |         |         |          |                 |         |         |  |  |
| COPPER    |            |               |              |             |                  |                 |        |                 |              |         |          | 100.0                   |                      |            |             |         |         |         |         |          |                 |         |         |  |  |
| IRON      |            |               |              | 27.957      |                  |                 |        |                 |              |         |          |                         |                      |            |             |         |         |         |         |          |                 |         |         |  |  |
| LEAD      |            |               |              | 0.9         |                  |                 |        |                 |              |         |          |                         |                      | 13.9       |             |         |         |         |         |          |                 |         |         |  |  |
| MAGNESIUM |            |               |              | 59.5        |                  |                 |        |                 | 45.71        |         |          |                         |                      |            |             |         |         |         |         |          |                 |         |         |  |  |
| MANGANESE |            |               |              |             |                  |                 |        |                 |              |         |          |                         |                      |            |             |         |         |         |         |          |                 |         |         |  |  |
| MERCURY   |            |               |              |             |                  |                 |        |                 |              |         |          |                         |                      |            |             |         |         |         |         |          |                 |         |         |  |  |
| NICKEL    |            |               |              |             |                  |                 |        |                 | 200.0        |         |          |                         |                      |            |             |         |         |         |         |          |                 |         |         |  |  |
| POTASSIUM |            |               |              |             |                  |                 |        |                 |              |         |          |                         |                      |            |             |         |         |         |         |          |                 |         |         |  |  |
| SELENIUM  |            |               |              |             |                  |                 |        | 37.0            |              |         |          | 27.0                    |                      |            |             |         |         |         |         |          |                 |         |         |  |  |
| SILVER    |            |               |              |             |                  |                 |        |                 |              |         |          |                         |                      |            |             |         |         |         |         |          |                 |         |         |  |  |
| SODIUM    |            |               |              | 210.206     |                  |                 |        |                 | 73.5         |         |          |                         |                      |            |             |         |         |         |         |          |                 |         |         |  |  |
| THALLIUM  |            |               |              |             |                  |                 |        |                 | 200.0        |         |          |                         |                      |            |             |         |         |         |         |          |                 |         |         |  |  |
| TIN       |            |               |              |             |                  |                 |        |                 |              |         |          |                         |                      |            |             |         |         |         |         |          |                 |         |         |  |  |
| VANADIUM  |            |               |              |             |                  |                 |        |                 |              |         |          |                         |                      |            |             |         |         |         |         |          |                 |         |         |  |  |
| ZINC      |            |               |              | -3.6        |                  |                 |        |                 |              |         |          | 100.0                   |                      | 26.5       |             |         |         |         |         |          |                 |         |         |  |  |
| CYANIDE   |            |               |              |             | -2.267           |                 |        |                 | 200.0        |         |          |                         |                      | 12.9       |             |         |         |         |         |          |                 |         |         |  |  |



Regional Transmittal Form

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION V

DATE: 02-04-99  
SUBJECT: Review of Data  
Received for Review on Jan. 28, 1999  
FROM: Stephen L. Ostrodka, Chief (HSRL-5J)  
Superfund Technical Support Section /LF.  
TO: Data User: US Army Corp. of Eng.

We have reviewed the data for the following case:

SITE NAME: Himco Dump (IN)  
CASE NUMBER: 26593 SDG NUMBER: MEBQF5  
Number and Type of Samples: 20 water and soil samples  
Sample Numbers: MEBQF1-3, 5-9, MEBQGO-3, 7-9, MEBQH3-5, MEBQT  
Laboratory: SVL Hrs. for Review: 16  
+1

Following are our findings:

All water Se data are unusable because Se spike recovery was extremely low (<30%).  
All other data are usable with the qualifications described in the attached narrative.

L. Finkelberg

CC: Cecilia Moore  
Region 5 TPO  
Mail Code: SM-5J

02-04-99

Case: 26593  
Site: Himco Dump

SDG: MEBQF5  
Laboratory: SVL

The laboratory's portion of this case contains 5 low-level water samples and 15 low-level soil samples analyzed for total metals and total cyanide. The following narrative lists the out-of-control audits and their possible effect on the sample results.

**Evidential Audit:** All forms and most of the raw data documents are originals. One of the chain-of-custody sheets is a copy; the original may be found with SDG MEBQH0. The custody seals and one of the airbills are copies; the original documents may be found with SDG MEBHQ0. GFAA, Hg, and CN real-time raw data was not submitted for review with this case; instead, run summary reports were included for these parameters. The original DC-1 form, sample tags, airbill, and chain-of-custody documents are present in the case. All documents are in the order as specified on the inventory sheet (form DC-2).

#### **Waters (MEBQF1-3, MEBQJ1, MEBQJ2)**

**ICP analyses:** The calibration blank contained Ca (28.9 ug/l), and Ca on MEBQJ1 is estimated (J) due to contamination.

The spike recovery for Fe (165.5%) is greater than the 125% upper limit; however, the sample concentration was greater than 4 times the spike, thus invalidating the spike as a QC audit. The calibration blank contained Fe (24.3 ug/l), and Fe on MEBQJ1 is estimated (J) due to contamination.

The calibration blank also contained Zn (4.8 ug/l). Zn on MEBQF3 and MEBQJ1 are estimated (J) due to contamination.

**GFAA Analyses:** The 60.3% As spike recovery indicates a low bias, and As on MEBQF1, MEBQF2, and MEBQJ2 are estimated (J). These three As results were flagged "W" and are also affected by interference. As on MEBQF3 and MEBQJ1 are estimated (UJ) due to a possible elevated detection limit.

The 26.0% Se spike recovery indicates a low bias, and all Se data are unusable (R). Se on MEBQF1-3 and MEBQJ2 were flagged "W" and are also affected by interference.

**Other Qualifiers:** A negative concentration reading was obtained for the CN calibration blank (-5.965 ug/l). CN on MEBQF1-3 and MEBQJ1 are estimated (J) due to a low bias.

Reviewed by           J. Ganz          

Date:           February 3, 1998

Case: 26593  
Site: Himco Dump

SDG: MEBQF5  
Laboratory: SVL

*this is not a  
Dup but a rinse*

Samples MEBQF1 and MEBQF2 are field duplicates and show good correlation. Samples MEBQF3 and MEBQJ1 are field duplicates, and the duplicate differences were greater than the CRDLs for Ca, Fe, Mg, Mn, and Na. This indicates poor precision, and all Mg, Mn, and Na data are estimated (J). Ca and Fe on MEBQJ1 are also affected but are qualified above. All other Ca and Fe data are estimated (J) due to poor precision.

Sample MEBQJ2 was not sufficiently preserved for metals, indicating a low bias. The Al, Ba, and K results for this sample are estimated (J). The Sb, Be, Cd, Cr, Co, Cu, Pb, Hg, Ni, Ag, Tl, V, and Zn results are estimated (UJ) due to possibly elevated detection limits. The As, Ca, Fe, Mg, Mn, Se, and Na results are also affected but are qualified above.

### Soils (MEBQF5-9; MEBQG0-3, 7-9; MEBQH3-5)

**ICP Analyses:** The duplicate RPDs for Be (61.8%), Ca (42.3%), and Mg (36.7%) are greater than the 35% control limit; however, the duplicate differences are less than 2 times the CRDLs, and all Be, Ca, and Mg data are acceptable.

The calibration blank contained Co (8.6 ug/l) and Na (98.2 ug/l) indicating contamination, and the following results are estimated (J): all Na data and all Co results except for that on MEBQG0.

**GFAA Analyses:** The 62.1% As spike recovery indicates a low bias, and all As data are estimated (J). All As results except that on MEBQH4 were flagged "W" and are also affected by interference.

The calibration blank contained Pb (4.0 ug/l) indicating contamination. Pb on MEBQF6-9, MEBQG1-3, MEBQG7, and MEBQG9 are estimated (J).

Se on MEBQG1, MEBQH4, and MEBQH5 were flagged "W" and are estimated (UJ) due to interference.

**Other Qualifiers:** The calibration blank contained Hg (0.1 ug/l), and the following Hg results are estimated (J) due to contamination: MEBQF5, MEBQF8, MEBQG1-3, and MEBQH4.

The duplicate RPD for CN (200%) is greater than the 35% control limit; however, the duplicate difference is less than 2 times the CRDLs, and CN data are not qualified on this basis. The

Reviewed by J. Ganz

Date: February 3, 1998

Case: 26593  
Site: Himco Dump

SDG: MEBQF5  
Laboratory: SVL

preparation blank contained CN (0.322 mg/kg) indicating contamination, and a negative concentration value (-5.965 ug/l) was obtained for the calibration blank indicating a low bias. The following CN results are estimated (J): MEBQF5, MEBQF6, MEBQF8, MEBQG0-2, MEBQG7-9, and MEBQH3-5.

Reviewed by           J. Ganz          

Date:           February 3, 1998

QC EXCEPTION SUMMARY REPORT

CASE\SAS#: 26593  
 DATA SET: MEBQF5  
 LAB QC # \_\_\_\_\_  
 DATE: 1-28-99

SITE: Himco Dump  
 LAB: SVL  
 REVIEWED BY: J. Ganz

MATRIX: W/S  
 CONC: low

WATER SAMPLE SPK: \_\_\_\_\_  
 WATER SAMPLE DUP: \_\_\_\_\_  
 SOIL SAMPLE SPK: \_\_\_\_\_  
 SOIL SAMPLE DUP: \_\_\_\_\_

| FORM #    | FORM 2    | FORM 3        | FORM 3       | FORM 3      | FORM 3           | FORM 3          | FORM 4 | FORM 5        | FORM 6       | FORM 7 | FORM 7   | FORM 9                  | FORM 9               | FORM 6     | FORM 3      | FIELD | FIELD            | FIELD | FIELD                 |             |                         |
|-----------|-----------|---------------|--------------|-------------|------------------|-----------------|--------|---------------|--------------|--------|----------|-------------------------|----------------------|------------|-------------|-------|------------------|-------|-----------------------|-------------|-------------------------|
| ELEMENT   | HOLD TIME | INITIAL CALIB | CONTIN CALIB | CALIB BLANK | PREP WATER BLANK | PREP SOIL BLANK | ICS WR | SOIL SPIKE SR | SOIL DUP RPD | LCS AQ | LCS SOIL | SERIAL DILUTION AQUEOUS | SERIAL DILUTION SOIL | AQ DUP RPD | AQ SPIKE WR | BLANK | GF1/2<br>DUP RPD | BLANK | GF3<br>DUP RPD<br>QJ1 | QFAA<br>DUP | QFAA<br>ANALYT<br>SPKKE |
| ALUMINUM  | PH=4      | N/A           | 4            |             |                  |                 |        |               |              |        |          |                         |                      |            |             |       |                  |       |                       |             |                         |
| ANTIMONY  | MEBQF5    | EQ            | ED           |             |                  |                 |        |               |              |        |          |                         |                      |            |             |       |                  |       |                       |             |                         |
| ARSENIC   |           |               | (37)(3) 5)   |             |                  |                 |        | 62.1          |              |        |          |                         |                      |            | 60.3        |       |                  |       |                       |             |                         |
| BARIUM    |           |               |              |             |                  |                 |        |               |              |        |          |                         |                      |            |             |       |                  |       |                       |             |                         |
| BERYLLIUM |           |               |              |             | -625             |                 |        | OK 61.8       |              |        |          |                         |                      |            |             |       |                  |       |                       |             |                         |
| CADMIUM   |           |               |              |             |                  |                 |        |               |              |        |          |                         |                      |            |             |       |                  |       |                       |             |                         |
| CALCIUM   |           |               |              | 28.9        |                  |                 |        | OK 42.3       |              |        |          |                         |                      |            |             |       |                  |       |                       | 199.9       |                         |
| CHROMIUM  |           |               |              |             |                  |                 |        |               |              |        |          |                         |                      |            |             |       |                  |       |                       |             |                         |
| COBALT    |           |               |              | 8.6         |                  |                 |        |               |              |        |          |                         |                      |            |             |       |                  |       |                       |             |                         |
| COPPER    |           |               |              |             |                  |                 |        |               |              |        |          |                         |                      |            |             |       |                  |       |                       |             |                         |
| IRON      |           |               |              | 24.3        |                  |                 |        |               |              |        |          |                         |                      |            | 165.5 OK    |       |                  |       |                       | 198.9       |                         |
| LEAD      |           |               |              | 4.0         |                  | 0.87            |        |               |              |        |          |                         |                      |            |             |       |                  |       |                       |             |                         |
| MAGNESIUM |           |               |              |             |                  |                 |        | OK 36.7       |              |        |          |                         |                      |            |             |       |                  |       |                       | 200         |                         |
| MANGANESE |           |               |              |             |                  |                 |        |               |              |        |          |                         |                      |            |             |       |                  |       |                       | 200         |                         |
| MERCURY   |           |               |              | 0.1         |                  |                 |        |               |              |        |          |                         |                      |            |             |       |                  |       |                       |             |                         |
| NICKEL    |           |               |              |             |                  |                 |        |               |              |        |          |                         |                      |            |             |       |                  |       |                       |             |                         |
| POTASSIUM |           |               |              |             |                  |                 |        |               |              |        |          |                         |                      |            |             |       |                  |       |                       |             |                         |
| SELENIUM  |           |               |              |             |                  |                 |        |               |              |        |          |                         |                      |            | 26.0        |       |                  |       |                       |             |                         |
| SILVER    |           |               |              |             |                  |                 |        |               |              |        |          |                         |                      |            |             |       |                  |       |                       |             |                         |
| SODIUM    |           |               |              | 98.2        |                  |                 |        |               |              |        |          |                         |                      |            |             |       |                  |       |                       | 200         |                         |
| THALLIUM  |           |               |              |             |                  |                 |        |               |              |        |          |                         |                      |            |             |       |                  |       |                       |             |                         |
| TIN       |           |               |              |             |                  |                 |        |               |              |        |          |                         |                      |            |             |       |                  |       |                       |             |                         |
| VANADIUM  |           |               |              |             |                  |                 |        |               |              |        |          |                         |                      |            |             |       |                  |       |                       |             |                         |
| ZINC      | ✓         | ✓             | ✓            | 4.8         |                  |                 |        |               |              |        |          |                         |                      |            |             |       |                  |       |                       |             |                         |
| CYANIDE   |           |               |              | -5.965      |                  | 0.322           |        | OK 200        |              |        |          |                         |                      |            |             |       |                  |       |                       |             |                         |

Pb: G7, F9, F8, F6, G9, G2, G3, G1 CN: F1-3, J1, F28, F5, F6, G9, G8, G7, G6-2, H3-H5 Field dups F1/2; F3/J1 G6, G3, H3-5  
 Zn: F3, J1 Fe: J1 Na: G7, F9, F7, F8, F5, G9, G8, G9, G8

## DATA QUALIFIER DEFINITIONS

For the purpose of defining the flagging nomenclature utilized in this document, the following code letters and associated definitions are provide:

- U Indicates the material was analyzed, but was not detected above the level of the associated value. The associated value is either the sample quantitation limit or the sample detection limit.
- J Indicates the associated value is an estimated quantity.
- R Indicates the data are unusable. (Note: The analyte may or may not be present.)
- UJ Indicates the material was analyzed for, but was not detected. The associated value is an estimate and may be inaccurate or imprecise.
- E Indicates the reported value is estimated because of the presence of interferences. An explanatory note shall be included under Comments on the Cover Page (if the problem applies to all samples) or on the specific FORM I-IN (if it is an isolated problem).
- M Indicates duplicate injection precision is not met.
- N Indicates the spike sample recovery is not within control limits.
- S Indicates the reported value was determined by the Method of Standard Addition (MSA).
- W Indicates the post-digestion spike for furnace AA analysis is out of control limits (85%-115%), while sample absorbance is less than 50% of the spike absorbance.
- + Indicates the correlation coefficient for the MSA is less than 0.995.
- \* Indicates the duplicate analysis is not within control limits.

Note: Entering "S", "W" or "+" is mutually exclusive. No combination of these qualifiers can appear in the same field for an analyte.

SILVER

\*\*\*\*\*CASE NARRATIVE

CASE: 26593  
SDG: MEBQF5

SILVER RECEIVED SOIL AND WATER SAMPLES FOR METALS AND CYANIDE.

COOLER TEMPERATURES:

|                 |              |    |
|-----------------|--------------|----|
| AIRBILL NUMBER: | 1172422112   | 4° |
| AIRBILL NUMBER: | 1172422101   | 3° |
| AIRBILL NUMBER: | 809200471671 | 4° |
| AIRBILL NUMBER: | 809200471660 | 5° |

pH ON HNO3 PRESERVED BOTTLE FOR SAMPLE MEBQJ2 WAS 4.  
PER CHARLES HUTCHINSON, SILVER PROCEEDED WITH ANALYSIS (REFERENCE TELEPHONE LOG).

SILVER REDIGESTED THE SOIL SAMPLES FOR ICP AS THE QC CRITERION FAILED.

DISK TO DYNACORP AND REGION 5.

  
 \_\_\_\_\_  
 MELBA BENCICH  
 DOCUMENT CONTROL OFFICER

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Name: SVL\_ANALYTICAL\_INC. Contract: 68-D5-0138
Lab Code: SILVER Case No.: 26593 SAS No.: SDG No.: MEBQF5
SOW No.: ILM04.0

Table with 2 columns: EPA Sample No. and Lab Sample ID. Lists sample identifiers from MEBQF1 to MEBQH3.

Were ICP interelement corrections applied ? Yes/No YES
Were ICP background corrections applied ? Yes/No YES
If yes - were raw data generated before application of background corrections ? Yes/No NO

Comments:

Blank lines for handwritten comments.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: [Handwritten Signature] Name: MELBA BENICICH
Date: NOVEMBER 4, 1998 Title: DOCUMENT CONTROL OFFICER

COVER PAGE - INORGANIC ANALYSES DATA PACKAGE

Lab Name: SVL\_ANALYTICAL\_INC. Contract: 68-D5-0138
Lab Code: SILVER Case No.: 26593 SAS No.: SDG No.:MEBQF5
SOW No.: ILM04.0

Table with 2 columns: EPA Sample No. and Lab Sample ID. Rows include MEBQH4, MEBQH5, MEBQJ1, MEBQJ2.

Were ICP interelement corrections applied ? Yes/No YES
Were ICP background corrections applied ? Yes/No YES
If yes - were raw data generated before application of background corrections ? Yes/No NO

Comments:

Blank lines for comments.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: [Handwritten Signature] Name: MELBA BENCICH
Date: NOVEMBER 4, 1998 Title: DOCUMENT CONTROL OFFICER

U.S. EPA - CLP

1  
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MEBQF1

Lab Name: SVL\_ANALYTICAL\_INC. \_\_\_\_\_ Contract: 68-D5-0138

Lab Code: SILVER Case No.: 26593\_ SAS No.: \_\_\_\_\_ SDG No.: MEBQF5\_

Matrix (soil/water): WATER Lab Sample ID: MEBQF1

Level (low/med): LOW\_ Date Received: 10/22/98

% Solids: \_\_\_0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L\_

| CAS No.   | Analyte   | Concentration | C | Q  | M  |
|-----------|-----------|---------------|---|----|----|
| 7429-90-5 | Aluminum  | 26.0          | U |    | P  |
| 7440-36-0 | Antimony  | 42.2          | U |    | P  |
| 7440-38-2 | Arsenic   | 3.3           | B | WN | F  |
| 7440-39-3 | Barium    | 85.5          | B |    | P  |
| 7440-41-7 | Beryllium | 0.60          | U |    | P  |
| 7440-43-9 | Cadmium   | 4.6           | U |    | P  |
| 7440-70-2 | Calcium   | 361000        |   |    | P  |
| 7440-47-3 | Chromium  | 11.3          |   |    | P  |
| 7440-48-4 | Cobalt    | 7.8           | U |    | P  |
| 7440-50-8 | Copper    | 4.1           | U |    | P  |
| 7439-89-6 | Iron      | 26900         |   |    | P  |
| 7439-92-1 | Lead      | 0.50          | U |    | F  |
| 7439-95-4 | Magnesium | 13900         |   |    | P  |
| 7439-96-5 | Manganese | 2940          |   |    | P  |
| 7439-97-6 | Mercury   | 0.10          | U |    | CV |
| 7440-02-0 | Nickel    | 28.3          | U |    | P  |
| 7440-09-7 | Potassium | 3630          | B |    | P  |
| 7782-49-2 | Selenium  | 3.0           | U | WN | F  |
| 7440-22-4 | Silver    | 5.3           | U |    | P  |
| 7440-23-5 | Sodium    | 33100         |   |    | P  |
| 7440-28-0 | Thallium  | 0.40          | U |    | F  |
| 7440-62-2 | Vanadium  | 12.3          | U |    | P  |
| 7440-66-6 | Zinc      | 3.2           | U |    | P  |
|           | Cyanide   | 14.4          |   |    | CA |

Color Before: COLORLESS Clarity Before: CLEAR\_ Texture: \_\_\_\_\_

Color After: COLORLESS Clarity After: CLEAR\_ Artifacts: \_\_\_\_\_

Comments:

4

U.S. EPA - CLP

1  
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MEBQF2

Lab Name: SVL\_ANALYTICAL\_INC. Contract: 68-D5-0138

Lab Code: SILVER Case No.: 26593 SAS No.: SDG No.: MEBQF5

Matrix (soil/water): WATER Lab Sample ID: MEBQF2

Level (low/med): LOW Date Received: 10/22/98

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

| CAS No.   | Analyte   | Concentration | C | Q  | M  |
|-----------|-----------|---------------|---|----|----|
| 7429-90-5 | Aluminum  | 26.0          | U |    | P  |
| 7440-36-0 | Antimony  | 42.2          | U |    | P  |
| 7440-38-2 | Arsenic   | 3.6           | B | WN | F  |
| 7440-39-3 | Barium    | 91.2          | B |    | P  |
| 7440-41-7 | Beryllium | 0.60          | U |    | P  |
| 7440-43-9 | Cadmium   | 4.6           | U |    | P  |
| 7440-70-2 | Calcium   | 377000        |   |    | P  |
| 7440-47-3 | Chromium  | 13.1          |   |    | P  |
| 7440-48-4 | Cobalt    | 7.8           | U |    | P  |
| 7440-50-8 | Copper    | 4.1           | U |    | P  |
| 7439-89-6 | Iron      | 28100         |   |    | P  |
| 7439-92-1 | Lead      | 0.50          | U |    | F  |
| 7439-95-4 | Magnesium | 14700         |   |    | P  |
| 7439-96-5 | Manganese | 3080          |   |    | P  |
| 7439-97-6 | Mercury   | 0.10          | U |    | CV |
| 7440-02-0 | Nickel    | 28.3          | U |    | P  |
| 7440-09-7 | Potassium | 3630          | B |    | P  |
| 7782-49-2 | Selenium  | 3.0           | U | WN | F  |
| 7440-22-4 | Silver    | 5.3           | U |    | P  |
| 7440-23-5 | Sodium    | 35800         |   |    | P  |
| 7440-28-0 | Thallium  | 0.40          | U |    | F  |
| 7440-62-2 | Vanadium  | 12.3          | U |    | P  |
| 7440-66-6 | Zinc      | 3.2           | U |    | P  |
|           | Cyanide   | 17.9          |   |    | CA |

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

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1  
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MEBQF3

Lab Name: SVL\_ANALYTICAL\_INC. Contract: 68-D5-0138

Lab Code: SILVER Case No.: 26593 SAS No.: SDG No.: MEBQF5

Matrix (soil/water): WATER Lab Sample ID: MEBQF3

Level (low/med): LOW Date Received: 10/22/98

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

| CAS No.   | Analyte   | Concentration | C | Q  | M  |
|-----------|-----------|---------------|---|----|----|
| 7429-90-5 | Aluminum  | 94.1          | B |    | P  |
| 7440-36-0 | Antimony  | 42.2          | U |    | P  |
| 7440-38-2 | Arsenic   | 0.90          | U | N  | F  |
| 7440-39-3 | Barium    | 33.5          | B |    | P  |
| 7440-41-7 | Beryllium | 0.60          | U |    | P  |
| 7440-43-9 | Cadmium   | 4.6           | U |    | P  |
| 7440-70-2 | Calcium   | 293000        |   |    | P  |
| 7440-47-3 | Chromium  | 10.4          |   |    | P  |
| 7440-48-4 | Cobalt    | 7.8           | U |    | P  |
| 7440-50-8 | Copper    | 4.1           | U |    | P  |
| 7439-89-6 | Iron      | 4590          |   |    | P  |
| 7439-92-1 | Lead      | 0.50          | U |    | F  |
| 7439-95-4 | Magnesium | 20300         |   |    | P  |
| 7439-96-5 | Manganese | 513           |   |    | P  |
| 7439-97-6 | Mercury   | 0.10          | U |    | CV |
| 7440-02-0 | Nickel    | 28.3          | U |    | P  |
| 7440-09-7 | Potassium | 3580          | B |    | P  |
| 7782-49-2 | Selenium  | 3.0           | U | WN | F  |
| 7440-22-4 | Silver    | 5.3           | U |    | P  |
| 7440-23-5 | Sodium    | 12100         |   |    | P  |
| 7440-28-0 | Thallium  | 0.40          | U |    | F  |
| 7440-62-2 | Vanadium  | 12.3          | U |    | P  |
| 7440-66-6 | Zinc      | 3.7           | B |    | P  |
|           | Cyanide   | 12.4          |   |    | CA |

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

1  
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MEBQF5

Lab Name: SVL\_ANALYTICAL\_INC. \_\_\_\_\_ Contract: 68-D5-0138

Lab Code: SILVER Case No.: 26593\_ SAS No.: \_\_\_\_\_ SDG No.: MEBQF5\_

Matrix (soil/water): SOIL\_ Lab Sample ID: MEBQF5

Level (low/med): LOW\_ Date Received: 10/21/98

% Solids: \_96.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

| CAS No.   | Analyte   | Concentration | C | Q  | M  |
|-----------|-----------|---------------|---|----|----|
| 7429-90-5 | Aluminum  | 3150          |   |    | P  |
| 7440-36-0 | Antimony  | 8.7           | U |    | P  |
| 7440-38-2 | Arsenic   | 1.1           | B | WN | F  |
| 7440-39-3 | Barium    | 14.8          | B |    | P  |
| 7440-41-7 | Beryllium | 0.12          | U |    | P  |
| 7440-43-9 | Cadmium   | 0.95          | U |    | P  |
| 7440-70-2 | Calcium   | 953           | B |    | P  |
| 7440-47-3 | Chromium  | 5.3           |   |    | P  |
| 7440-48-4 | Cobalt    | 3.3           | B |    | P  |
| 7440-50-8 | Copper    | 5.3           |   |    | P  |
| 7439-89-6 | Iron      | 4680          |   |    | P  |
| 7439-92-1 | Lead      | 5.4           |   |    | F  |
| 7439-95-4 | Magnesium | 919           | B |    | P  |
| 7439-96-5 | Manganese | 105           |   |    | P  |
| 7439-97-6 | Mercury   | 0.05          | B |    | CV |
| 7440-02-0 | Nickel    | 5.9           | U |    | P  |
| 7440-09-7 | Potassium | 192           | U |    | P  |
| 7782-49-2 | Selenium  | 0.12          | U |    | F  |
| 7440-22-4 | Silver    | 1.1           | U |    | P  |
| 7440-23-5 | Sodium    | 29.9          | B |    | P  |
| 7440-28-0 | Thallium  | 0.08          | U |    | F  |
| 7440-62-2 | Vanadium  | 10.0          | B |    | P  |
| 7440-66-6 | Zinc      | 15.5          |   |    | P  |
|           | Cyanide   | 0.92          |   |    | CA |

Color Before: BROWN\_ Clarity Before: \_\_\_\_\_ Texture: MEDIUM

Color After: YELLOW\_ Clarity After: \_\_\_\_\_ Artifacts: \_\_\_\_\_

Comments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MEBQF6

Lab Name: SVL\_ANALYTICAL\_INC. Contract: 68-D5-0138

Lab Code: SILVER Case No.: 26593 SAS No.: SDG No.: MEBQF5

Matrix (soil/water): SOIL Lab Sample ID: MEBQF6

Level (low/med): LOW Date Received: 10/21/98

% Solids: 97.6

Concentration Units (ug/L or mg/kg dry weight): MG/KG

| CAS No.   | Analyte   | Concentration | C | Q  | M  |
|-----------|-----------|---------------|---|----|----|
| 7429-90-5 | Aluminum  | 1900          |   |    | P  |
| 7440-36-0 | Antimony  | 8.6           | U |    | P  |
| 7440-38-2 | Arsenic   | 0.55          | B | WN | F  |
| 7440-39-3 | Barium    | 126           |   |    | P  |
| 7440-41-7 | Beryllium | 0.12          | U |    | P  |
| 7440-43-9 | Cadmium   | 0.94          | U |    | P  |
| 7440-70-2 | Calcium   | 6060          |   |    | P  |
| 7440-47-3 | Chromium  | 5.3           |   |    | P  |
| 7440-48-4 | Cobalt    | 1.9           | B |    | P  |
| 7440-50-8 | Copper    | 5.1           | B |    | P  |
| 7439-89-6 | Iron      | 2590          |   |    | P  |
| 7439-92-1 | Lead      | 6.9           |   |    | F  |
| 7439-95-4 | Magnesium | 1040          |   |    | P  |
| 7439-96-5 | Manganese | 35.8          |   |    | P  |
| 7439-97-6 | Mercury   | 0.05          | U |    | CV |
| 7440-02-0 | Nickel    | 6.7           | B |    | P  |
| 7440-09-7 | Potassium | 190           | U |    | P  |
| 7782-49-2 | Selenium  | 0.12          | U |    | F  |
| 7440-22-4 | Silver    | 1.1           | U |    | P  |
| 7440-23-5 | Sodium    | 32.7          | B |    | P  |
| 7440-28-0 | Thallium  | 0.08          | U |    | F  |
| 7440-62-2 | Vanadium  | 5.7           | B |    | P  |
| 7440-66-6 | Zinc      | 14.9          |   |    | P  |
|           | Cyanide   | 0.40          | B |    | CA |

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

Several water volatile trip blanks were analyzed outside holding times as indicated in the trip blank discussion.

### **3 Laboratory Control**

#### **3.1 Method Control**

##### **3.1.1 Soil and Ground Water**

This section presents an overview of the data validation performed by US EPA-Region 5 contractors using the National Functional Guidelines for Inorganic and Organic Data Review. The data is generally usable except as noted here. Complete details can be found in the validation narratives provided in this appendix.

###### **3.1.1.1 Instrument Calibration**

**Volatiles** - Numerous instances of continuing calibration whose corresponding initial calibration has percent relative standard deviations outside primary criteria and continuing calibration with percent difference outside criteria are noted. The detections have been qualified "J" and the nondetections qualified as "UJ".

**Semivolatiles** - Numerous instances of continuing calibration whose corresponding initial calibration has percent relative standard deviations outside primary criteria and continuing calibration with percent difference outside criteria are noted. The detections have been qualified "J" and the nondetections qualified as "UJ".

**Metals** - No problems are noted.

###### **3.1.1.2 Laboratory Control Samples**

No problems are noted.

###### **3.1.1.3 Method Blanks**

**Volatiles** - Where methylene chloride, acetone and 2-butanone are detected in the method blank, the accompanying samples are qualified "U" if the sample result is less than ten times the blank concentration.

**Semivolatiles** - Where pyrene is detected in the method blank the accompanying sample is qualified "U" if the sample result is less than five times the blank concentration.

of fifty percent (aluminum at 59%, barium at 55%, calcium at 70%, manganese at 88%, sodium at 53% and cyanide at 66%), none are significant enough to impact data usability.

**Ground Water** - The ground water field duplicates demonstrate excellent precision. The relative percent difference between pairs is predominantly in the range of ten to twenty percent. The greatest difference calculated is the lead result for one pair at 34 percent. See Table 1-2 for all ground water duplicate sample RPDs.

**Soil Vapor** - The duplicate pairs show excellent precision with the following exceptions. See Table 1-3 for all soil vapor duplicate sample RPDs.

- Location TT-14: The 1,1 dichloroethane RPD is greater than 100% and m, p-xylene RPD is greater than 59%. Although these compounds have been correctly identified the concentration present must be considered estimated due to the variance between samples.
- Location TT-26: Carbon disulfide RPD is 69% and the tetrachloroethene RPD is 59%.
- Location TT-39: Toluene has an RPD of 107% and the carbon disulfide RPD is 53%. The concentrations of both compounds are near the reporting limits which may explain the variability.
- Location TT-46: Carbon disulfide has an RPD of 71% and the toluene RPD is 128%. These concentrations are also near their respective reporting limits which may explain the variability.

## 2.2 Equipment Blanks

Equipment blank samples were collected by pouring purchased deionized water over the decontaminated equipment and capturing the run-off. These blank samples were always collected just prior to using the equipment at the referenced location.

**Soil** - Equipment blanks were not collected in support of soil sampling.

**Ground Water** - During the three day ground water sample collection activities two equipment rinse blanks were collected on separate days. See Table 1-4 for a summary of compounds detected. No volatile or semivolatile organic compounds were detected in either blank with the exception of bis (2-ethylhexyl)phthalate (BEHP) in one sample. BEHP was not detected in the accompanying field sample. Both of the blanks also contained inorganic analytes at low concentrations as described below.

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EPA SAMPLE NO.

MEBQF7

Lab Name: SVL\_ANALYTICAL\_INC. \_\_\_\_\_ Contract: 68-D5-0138

Lab Code: SILVER Case No.: 26593\_ SAS No.: \_\_\_\_\_ SDG No.: MEBQF5\_

Matrix (soil/water): SOIL\_ Lab Sample ID: MEBQF7

Level (low/med): LOW\_ Date Received: 10/21/98

% Solids: \_92.6

Concentration Units (ug/L or mg/kg dry weight): MG/KG

| CAS No.   | Analyte   | Concentration | C | Q  | M  |
|-----------|-----------|---------------|---|----|----|
| 7429-90-5 | Aluminum  | 4230          |   |    | P  |
| 7440-36-0 | Antimony  | 9.1           | U |    | P  |
| 7440-38-2 | Arsenic   | 1.5           | B | WN | F  |
| 7440-39-3 | Barium    | 51.7          |   |    | P  |
| 7440-41-7 | Beryllium | 0.13          | U |    | P  |
| 7440-43-9 | Cadmium   | 0.99          | U |    | P  |
| 7440-70-2 | Calcium   | 586           | B |    | P  |
| 7440-47-3 | Chromium  | 5.5           |   |    | P  |
| 7440-48-4 | Cobalt    | 3.4           | B |    | P  |
| 7440-50-8 | Copper    | 35.1          |   |    | P  |
| 7439-89-6 | Iron      | 4780          |   |    | P  |
| 7439-92-1 | Lead      | 21.1          |   |    | F  |
| 7439-95-4 | Magnesium | 559           | B |    | P  |
| 7439-96-5 | Manganese | 317           |   |    | P  |
| 7439-97-6 | Mercury   | 0.05          | U |    | CV |
| 7440-02-0 | Nickel    | 8.1           | B |    | P  |
| 7440-09-7 | Potassium | 200           | U |    | P  |
| 7782-49-2 | Selenium  | 0.13          | U |    | F  |
| 7440-22-4 | Silver    | 1.1           | U |    | P  |
| 7440-23-5 | Sodium    | 34.3          | B |    | P  |
| 7440-28-0 | Thallium  | 0.09          | U |    | F  |
| 7440-62-2 | Vanadium  | 10.1          | B |    | P  |
| 7440-66-6 | Zinc      | 58.3          |   |    | P  |
|           | Cyanide   | 4.2           |   |    | CA |

Color Before: BROWN\_ Clarity Before: \_\_\_\_\_ Texture: MEDIUM

Color After: YELLOW\_ Clarity After: \_\_\_\_\_ Artifacts: \_\_\_\_\_

Comments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MEBQF8

Lab Name: SVL\_ANALYTICAL\_INC. \_\_\_\_\_ Contract: 68-D5-0138

Lab Code: SILVER Case No.: 26593\_ SAS No.: \_\_\_\_\_ SDG No.: MEBQF5\_

Matrix (soil/water): SOIL\_ Lab Sample ID: MEBQF8

Level (low/med): LOW\_ Date Received: 10/21/98

% Solids: \_92.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

| CAS No.   | Analyte   | Concentration | C | Q  | M  |
|-----------|-----------|---------------|---|----|----|
| 7429-90-5 | Aluminum  | 5670          | - |    | P  |
| 7440-36-0 | Antimony  | 9.2           | U |    | P  |
| 7440-38-2 | Arsenic   | 1.4           | B | WN | F  |
| 7440-39-3 | Barium    | 55.1          | - |    | P  |
| 7440-41-7 | Beryllium | 0.13          | U |    | P  |
| 7440-43-9 | Cadmium   | 1.2           | - |    | P  |
| 7440-70-2 | Calcium   | 710           | B |    | P  |
| 7440-47-3 | Chromium  | 7.0           | - |    | P  |
| 7440-48-4 | Cobalt    | 3.3           | B |    | P  |
| 7440-50-8 | Copper    | 37.2          | - |    | P  |
| 7439-89-6 | Iron      | 5330          | - |    | P  |
| 7439-92-1 | Lead      | 28.9          | - |    | F  |
| 7439-95-4 | Magnesium | 766           | B |    | P  |
| 7439-96-5 | Manganese | 319           | - |    | P  |
| 7439-97-6 | Mercury   | 0.07          | B |    | CV |
| 7440-02-0 | Nickel    | 8.1           | B |    | P  |
| 7440-09-7 | Potassium | 297           | B |    | P  |
| 7782-49-2 | Selenium  | 0.13          | U |    | F  |
| 7440-22-4 | Silver    | 1.1           | U |    | P  |
| 7440-23-5 | Sodium    | 45.5          | B |    | P  |
| 7440-28-0 | Thallium  | 0.09          | U |    | F  |
| 7440-62-2 | Vanadium  | 10.4          | B |    | P  |
| 7440-66-6 | Zinc      | 68.9          | - |    | P  |
|           | Cyanide   | 0.58          | - |    | CA |

Color Before: BROWN\_ Clarity Before: \_\_\_\_\_ Texture: MEDIUM

Color After: YELLOW\_ Clarity After: \_\_\_\_\_ Artifacts: \_\_\_\_\_

Comments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MEBQF9

Lab Name: SVL\_ANALYTICAL\_INC. \_\_\_\_\_ Contract: 68-D5-0138

Lab Code: SILVER Case No.: 26593\_ SAS No.: \_\_\_\_\_ SDG No.: MEBQF5\_

Matrix (soil/water): SOIL\_ Lab Sample ID: MEBQF9

Level (low/med): LOW\_ Date Received: 10/21/98

% Solids: 94.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

| CAS No.   | Analyte   | Concentration | C | Q  | M  |
|-----------|-----------|---------------|---|----|----|
| 7429-90-5 | Aluminum  | 3610          |   |    | P  |
| 7440-36-0 | Antimony  | 8.9           | U |    | P  |
| 7440-38-2 | Arsenic   | 1.2           | B | WN | F  |
| 7440-39-3 | Barium    | 48.7          |   |    | P  |
| 7440-41-7 | Beryllium | 0.13          | U |    | P  |
| 7440-43-9 | Cadmium   | 0.97          | U |    | P  |
| 7440-70-2 | Calcium   | 361           | B |    | P  |
| 7440-47-3 | Chromium  | 5.5           |   |    | P  |
| 7440-48-4 | Cobalt    | 3.1           | B |    | P  |
| 7440-50-8 | Copper    | 38.1          |   |    | P  |
| 7439-89-6 | Iron      | 4290          |   |    | P  |
| 7439-92-1 | Lead      | 16.3          |   |    | F  |
| 7439-95-4 | Magnesium | 503           | B |    | P  |
| 7439-96-5 | Manganese | 169           |   |    | P  |
| 7439-97-6 | Mercury   | 0.05          | U |    | CV |
| 7440-02-0 | Nickel    | 6.0           | U |    | P  |
| 7440-09-7 | Potassium | 238           | B |    | P  |
| 7782-49-2 | Selenium  | 0.13          | U |    | F  |
| 7440-22-4 | Silver    | 1.1           | U |    | P  |
| 7440-23-5 | Sodium    | 39.3          | B |    | P  |
| 7440-28-0 | Thallium  | 0.08          | U |    | F  |
| 7440-62-2 | Vanadium  | 9.5           | B |    | P  |
| 7440-66-6 | Zinc      | 50.1          |   |    | P  |
|           | Cyanide   | 4.9           |   |    | CA |

Color Before: BROWN\_ Clarity Before: \_\_\_\_\_ Texture: MEDIUM

Color After: YELLOW\_ Clarity After: \_\_\_\_\_ Artifacts: \_\_\_\_\_

Comments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MEBQGO

Lab Name: SVL\_ANALYTICAL\_INC. Contract: 68-D5-0138

Lab Code: SILVER Case No.: 26593 SAS No.: SDG No.: MEBQF5

Matrix (soil/water): SOIL Lab Sample ID: MEBQGO

Level (low/med): LOW Date Received: 10/21/98

% Solids: 93.3

Concentration Units (ug/L or mg/kg dry weight): MG/KG

| CAS No.   | Analyte   | Concentration | C | Q  | M  |
|-----------|-----------|---------------|---|----|----|
| 7429-90-5 | Aluminum  | 3320          |   |    | P  |
| 7440-36-0 | Antimony  | 9.0           | U |    | P  |
| 7440-38-2 | Arsenic   | 0.64          | B | WN | F  |
| 7440-39-3 | Barium    | 24.7          | B |    | P  |
| 7440-41-7 | Beryllium | 0.13          | U |    | P  |
| 7440-43-9 | Cadmium   | 0.99          | U |    | P  |
| 7440-70-2 | Calcium   | 535           | B |    | P  |
| 7440-47-3 | Chromium  | 7.6           |   |    | P  |
| 7440-48-4 | Cobalt    | 1.7           | U |    | P  |
| 7440-50-8 | Copper    | 12.7          |   |    | P  |
| 7439-89-6 | Iron      | 3330          |   |    | P  |
| 7439-92-1 | Lead      | 8.0           |   | S  | F  |
| 7439-95-4 | Magnesium | 678           | B |    | P  |
| 7439-96-5 | Manganese | 86.6          |   |    | P  |
| 7439-97-6 | Mercury   | 0.05          | U |    | CV |
| 7440-02-0 | Nickel    | 6.1           | U |    | P  |
| 7440-09-7 | Potassium | 198           | U |    | P  |
| 7782-49-2 | Selenium  | 0.13          | U |    | F  |
| 7440-22-4 | Silver    | 1.1           | U |    | P  |
| 7440-23-5 | Sodium    | 29.8          | B |    | P  |
| 7440-28-0 | Thallium  | 0.09          | U |    | F  |
| 7440-62-2 | Vanadium  | 10.9          |   |    | P  |
| 7440-66-6 | Zinc      | 24.9          |   |    | P  |
|           | Cyanide   | 0.16          | B |    | CA |

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MEBQG1

Lab Name: SVL\_ANALYTICAL\_INC. \_\_\_\_\_ Contract: 68-D5-0138

Lab Code: SILVER Case No.: 26593\_ SAS No.: \_\_\_\_\_ SDG No.: MEBQF5\_

Matrix (soil/water): SOIL\_ Lab Sample ID: MEBQG1

Level (low/med): LOW\_ Date Received: 10/21/98

% Solids: \_75.3

Concentration Units (ug/L or mg/kg dry weight): MG/KG

| CAS No.   | Analyte   | Concentration | C | Q  | M  |
|-----------|-----------|---------------|---|----|----|
| 7429-90-5 | Aluminum  | 4120          |   |    | P  |
| 7440-36-0 | Antimony  | 11.2          | U |    | P  |
| 7440-38-2 | Arsenic   | 0.83          | B | WN | F  |
| 7440-39-3 | Barium    | 115           |   |    | P  |
| 7440-41-7 | Beryllium | 0.33          | B |    | P  |
| 7440-43-9 | Cadmium   | 1.2           | U |    | P  |
| 7440-70-2 | Calcium   | 32700         |   |    | P  |
| 7440-47-3 | Chromium  | 14.6          |   |    | P  |
| 7440-48-4 | Cobalt    | 4.3           | B |    | P  |
| 7440-50-8 | Copper    | 2110          |   |    | P  |
| 7439-89-6 | Iron      | 9410          |   |    | P  |
| 7439-92-1 | Lead      | 191           |   |    | F  |
| 7439-95-4 | Magnesium | 3880          |   |    | P  |
| 7439-96-5 | Manganese | 539           |   |    | P  |
| 7439-97-6 | Mercury   | 0.25          |   |    | CV |
| 7440-02-0 | Nickel    | 8.0           | B |    | P  |
| 7440-09-7 | Potassium | 278           | B |    | P  |
| 7782-49-2 | Selenium  | 0.16          | U | W  | F  |
| 7440-22-4 | Silver    | 1.4           | U |    | P  |
| 7440-23-5 | Sodium    | 83.7          | B |    | P  |
| 7440-28-0 | Thallium  | 0.11          | U |    | F  |
| 7440-62-2 | Vanadium  | 11.3          | B |    | P  |
| 7440-66-6 | Zinc      | 161           |   |    | P  |
|           | Cyanide   | 0.14          | B |    | CA |

Color Before: BROWN\_ Clarity Before: \_\_\_\_\_ Texture: MEDIUM

Color After: YELLOW\_ Clarity After: \_\_\_\_\_ Artifacts: \_\_\_\_\_

Comments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MEBQG2

Lab Name: SVL\_ANALYTICAL\_INC. Contract: 68-D5-0138

Lab Code: SILVER Case No.: 26593 SAS No.: SDG No.: MEBQF5

Matrix (soil/water): SOIL Lab Sample ID: MEBQG2

Level (low/med): LOW Date Received: 10/21/98

% Solids: 95.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

| CAS No.   | Analyte   | Concentration | C | Q  | M  |
|-----------|-----------|---------------|---|----|----|
| 7429-90-5 | Aluminum  | 4500          |   |    | P  |
| 7440-36-0 | Antimony  | 8.8           | U |    | P  |
| 7440-38-2 | Arsenic   | 1.1           | B | WN | F  |
| 7440-39-3 | Barium    | 36.2          | B |    | P  |
| 7440-41-7 | Beryllium | 0.13          | U |    | P  |
| 7440-43-9 | Cadmium   | 0.96          | U |    | P  |
| 7440-70-2 | Calcium   | 2840          |   |    | P  |
| 7440-47-3 | Chromium  | 6.7           |   |    | P  |
| 7440-48-4 | Cobalt    | 3.0           | B |    | P  |
| 7440-50-8 | Copper    | 18.7          |   |    | P  |
| 7439-89-6 | Iron      | 4680          |   |    | P  |
| 7439-92-1 | Lead      | 19.6          |   |    | F  |
| 7439-95-4 | Magnesium | 1180          |   |    | P  |
| 7439-96-5 | Manganese | 170           |   |    | P  |
| 7439-97-6 | Mercury   | 0.06          | B |    | CV |
| 7440-02-0 | Nickel    | 5.9           | U |    | P  |
| 7440-09-7 | Potassium | 277           | B |    | P  |
| 7782-49-2 | Selenium  | 0.13          | U |    | F  |
| 7440-22-4 | Silver    | 1.1           | U |    | P  |
| 7440-23-5 | Sodium    | 40.5          | B |    | P  |
| 7440-28-0 | Thallium  | 0.08          | U |    | F  |
| 7440-62-2 | Vanadium  | 9.9           | B |    | P  |
| 7440-66-6 | Zinc      | 49.8          |   |    | P  |
|           | Cyanide   | 0.12          | B |    | CA |

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

1  
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MEBQG3

Lab Name: SVL\_ANALYTICAL\_INC. Contract: 68-D5-0138

Lab Code: SILVER Case No.: 26593 SAS No.: SDG No.: MEBQF5

Matrix (soil/water): SOIL Lab Sample ID: MEBQG3

Level (low/med): LOW Date Received: 10/21/98

% Solids: 88.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

| CAS No.   | Analyte   | Concentration | C | Q  | M  |
|-----------|-----------|---------------|---|----|----|
| 7429-90-5 | Aluminum  | 2630          |   |    | P  |
| 7440-36-0 | Antimony  | 9.5           | U |    | P  |
| 7440-38-2 | Arsenic   | 0.60          | B | WN | F  |
| 7440-39-3 | Barium    | 43.7          | B |    | P  |
| 7440-41-7 | Beryllium | 0.14          | U |    | P  |
| 7440-43-9 | Cadmium   | 1.0           | U |    | P  |
| 7440-70-2 | Calcium   | 9350          |   |    | P  |
| 7440-47-3 | Chromium  | 15.5          |   |    | P  |
| 7440-48-4 | Cobalt    | 3.0           | B |    | P  |
| 7440-50-8 | Copper    | 25.3          |   |    | P  |
| 7439-89-6 | Iron      | 3920          |   |    | P  |
| 7439-92-1 | Lead      | 127           |   |    | F  |
| 7439-95-4 | Magnesium | 1650          |   |    | P  |
| 7439-96-5 | Manganese | 184           |   |    | P  |
| 7439-97-6 | Mercury   | 0.11          | B |    | CV |
| 7440-02-0 | Nickel    | 9.8           |   |    | P  |
| 7440-09-7 | Potassium | 210           | B |    | P  |
| 7782-49-2 | Selenium  | 0.14          | U |    | F  |
| 7440-22-4 | Silver    | 1.2           | U |    | P  |
| 7440-23-5 | Sodium    | 43.0          | B |    | P  |
| 7440-28-0 | Thallium  | 0.09          | U |    | F  |
| 7440-62-2 | Vanadium  | 8.0           | B |    | P  |
| 7440-66-6 | Zinc      | 249           |   |    | P  |
|           | Cyanide   | 0.11          | U |    | CA |

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

ARTIFACTS: PIECE OF PLASTIC

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MEBQG7

Lab Name: SVL\_ANALYTICAL\_INC. \_\_\_\_\_ Contract: 68-D5-0138

Lab Code: SILVER Case No.: 26593\_ SAS No.: \_\_\_\_\_ SDG No.: MEBQF5\_

Matrix (soil/water): SOIL\_ Lab Sample ID: MEBQG7

Level (low/med): LOW\_ Date Received: 10/21/98

% Solids: \_96.1

Concentration Units (ug/L or mg/kg dry weight): MG/KG

| CAS No.   | Analyte   | Concentration | C | Q  | M  |
|-----------|-----------|---------------|---|----|----|
| 7429-90-5 | Aluminum  | 2260          |   |    | P  |
| 7440-36-0 | Antimony  | 8.8           | U |    | P  |
| 7440-38-2 | Arsenic   | 1.1           | B | WN | F  |
| 7440-39-3 | Barium    | 13.8          | B |    | P  |
| 7440-41-7 | Beryllium | 0.25          | B |    | P  |
| 7440-43-9 | Cadmium   | 0.96          | U |    | P  |
| 7440-70-2 | Calcium   | 1060          |   |    | P  |
| 7440-47-3 | Chromium  | 5.1           |   |    | P  |
| 7440-48-4 | Cobalt    | 2.8           | B |    | P  |
| 7440-50-8 | Copper    | 6.2           |   |    | P  |
| 7439-89-6 | Iron      | 4080          |   |    | P  |
| 7439-92-1 | Lead      | 6.1           |   |    | F  |
| 7439-95-4 | Magnesium | 853           | B |    | P  |
| 7439-96-5 | Manganese | 128           |   |    | P  |
| 7439-97-6 | Mercury   | 0.05          | U |    | CV |
| 7440-02-0 | Nickel    | 5.9           | U |    | P  |
| 7440-09-7 | Potassium | 193           | U |    | P  |
| 7782-49-2 | Selenium  | 0.12          | U |    | F  |
| 7440-22-4 | Silver    | 1.1           | U |    | P  |
| 7440-23-5 | Sodium    | 38.2          | B |    | P  |
| 7440-28-0 | Thallium  | 0.08          | U |    | F  |
| 7440-62-2 | Vanadium  | 6.5           | B |    | P  |
| 7440-66-6 | Zinc      | 22.8          |   |    | P  |
|           | Cyanide   | 0.17          | B |    | CA |

Color Before: BROWN\_ Clarity Before: \_\_\_\_\_ Texture: MEDIUM

Color After: YELLOW\_ Clarity After: \_\_\_\_\_ Artifacts: \_\_\_\_\_

Comments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MEBQG8

Lab Name: SVL\_ANALYTICAL\_INC. \_\_\_\_\_ Contract: 68-D5-0138

Lab Code: SILVER Case No.: 26593\_ SAS No.: \_\_\_\_\_ SDG No.: MEBQF5\_

Matrix (soil/water): SOIL\_ Lab Sample ID: MEBQG8

Level (low/med): LOW\_ Date Received: 10/21/98

% Solids: \_96.6

Concentration Units (ug/L or mg/kg dry weight): MG/KG

| CAS No.   | Analyte   | Concentration | C | Q  | M  |
|-----------|-----------|---------------|---|----|----|
| 7429-90-5 | Aluminum  | 1360          |   |    | P  |
| 7440-36-0 | Antimony  | 8.7           | U |    | P  |
| 7440-38-2 | Arsenic   | 0.70          | B | WN | F  |
| 7440-39-3 | Barium    | 8.0           | B |    | P  |
| 7440-41-7 | Beryllium | 0.12          | U |    | P  |
| 7440-43-9 | Cadmium   | 0.95          | U |    | P  |
| 7440-70-2 | Calcium   | 2990          |   |    | P  |
| 7440-47-3 | Chromium  | 3.3           |   |    | P  |
| 7440-48-4 | Cobalt    | 3.5           | B |    | P  |
| 7440-50-8 | Copper    | 4.6           | B |    | P  |
| 7439-89-6 | Iron      | 2470          |   |    | P  |
| 7439-92-1 | Lead      | 5.4           |   |    | F  |
| 7439-95-4 | Magnesium | 1920          |   |    | P  |
| 7439-96-5 | Manganese | 47.4          |   |    | P  |
| 7439-97-6 | Mercury   | 0.05          | U |    | CV |
| 7440-02-0 | Nickel    | 5.9           | U |    | P  |
| 7440-09-7 | Potassium | 192           | U |    | P  |
| 7782-49-2 | Selenium  | 0.12          | U |    | F  |
| 7440-22-4 | Silver    | 1.1           | U |    | P  |
| 7440-23-5 | Sodium    | 30.5          | B |    | P  |
| 7440-28-0 | Thallium  | 0.08          | U |    | F  |
| 7440-62-2 | Vanadium  | 5.6           | B |    | P  |
| 7440-66-6 | Zinc      | 15.1          |   |    | P  |
|           | Cyanide   | 0.18          | B |    | CA |

Color Before: BROWN\_ Clarity Before: \_\_\_\_\_ Texture: MEDIUM

Color After: YELLOW\_ Clarity After: \_\_\_\_\_ Artifacts: \_\_\_\_\_

Comments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MEBQG9

Lab Name: SVL\_ANALYTICAL\_INC. \_\_\_\_\_ Contract: 68-D5-0138

Lab Code: SILVER Case No.: 26593\_ SAS No.: \_\_\_\_\_ SDG No.: MEBQF5\_

Matrix (soil/water): SOIL\_ Lab Sample ID: MEBQG9

Level (low/med): LOW\_ Date Received: 10/21/98

% Solids: \_95.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

| CAS No.   | Analyte   | Concentration | C | Q  | M  |
|-----------|-----------|---------------|---|----|----|
| 7429-90-5 | Aluminum  | 2280          |   |    | P  |
| 7440-36-0 | Antimony  | 8.8           | U |    | P  |
| 7440-38-2 | Arsenic   | 0.90          | B | WN | F  |
| 7440-39-3 | Barium    | 14.2          | B |    | P  |
| 7440-41-7 | Beryllium | 0.13          | U |    | P  |
| 7440-43-9 | Cadmium   | 0.96          | U |    | P  |
| 7440-70-2 | Calcium   | 1510          |   |    | P  |
| 7440-47-3 | Chromium  | 6.3           |   |    | P  |
| 7440-48-4 | Cobalt    | 3.4           | B |    | P  |
| 7440-50-8 | Copper    | 12.5          |   |    | P  |
| 7439-89-6 | Iron      | 4570          |   |    | P  |
| 7439-92-1 | Lead      | 7.1           |   |    | F  |
| 7439-95-4 | Magnesium | 1140          |   |    | P  |
| 7439-96-5 | Manganese | 52.9          |   |    | P  |
| 7439-97-6 | Mercury   | 0.05          | U |    | CV |
| 7440-02-0 | Nickel    | 5.9           | U |    | P  |
| 7440-09-7 | Potassium | 194           | U |    | P  |
| 7782-49-2 | Selenium  | 0.13          | U |    | F  |
| 7440-22-4 | Silver    | 1.1           | U |    | P  |
| 7440-23-5 | Sodium    | 61.5          | B |    | P  |
| 7440-28-0 | Thallium  | 0.08          | U |    | F  |
| 7440-62-2 | Vanadium  | 9.2           | B |    | P  |
| 7440-66-6 | Zinc      | 38.9          |   |    | P  |
|           | Cyanide   | 0.25          | B |    | CA |

Color Before: BROWN\_ Clarity Before: \_\_\_\_\_ Texture: MEDIUM

Color After: YELLOW\_ Clarity After: \_\_\_\_\_ Artifacts: \_\_\_\_\_

Comments:

1  
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MEBQH3

Lab Name: SVL\_ANALYTICAL\_INC. Contract: 68-D5-0138

Lab Code: SILVER Case No.: 26593 SAS No.: SDG No.: MEBQF5

Matrix (soil/water): SOIL Lab Sample ID: MEBQH3

Level (low/med): LOW Date Received: 10/22/98

% Solids: 94.1

Concentration Units (ug/L or mg/kg dry weight): MG/KG

| CAS No.   | Analyte   | Concentration | C | Q  | M  |
|-----------|-----------|---------------|---|----|----|
| 7429-90-5 | Aluminum  | 2480          |   |    | P  |
| 7440-36-0 | Antimony  | 9.0           | U |    | P  |
| 7440-38-2 | Arsenic   | 1.1           | B | WN | F  |
| 7440-39-3 | Barium    | 14.1          | B |    | P  |
| 7440-41-7 | Beryllium | 0.13          | U |    | P  |
| 7440-43-9 | Cadmium   | 0.98          | U |    | P  |
| 7440-70-2 | Calcium   | 19600         |   |    | P  |
| 7440-47-3 | Chromium  | 5.7           |   |    | P  |
| 7440-48-4 | Cobalt    | 3.1           | B |    | P  |
| 7440-50-8 | Copper    | 9.2           |   |    | P  |
| 7439-89-6 | Iron      | 4750          |   |    | P  |
| 7439-92-1 | Lead      | 6.7           |   |    | F  |
| 7439-95-4 | Magnesium | 2380          |   |    | P  |
| 7439-96-5 | Manganese | 172           |   |    | P  |
| 7439-97-6 | Mercury   | 0.05          | U |    | CV |
| 7440-02-0 | Nickel    | 7.0           | B |    | P  |
| 7440-09-7 | Potassium | 264           | B |    | P  |
| 7782-49-2 | Selenium  | 0.13          | U |    | F  |
| 7440-22-4 | Silver    | 1.1           | U |    | P  |
| 7440-23-5 | Sodium    | 36.2          | B |    | P  |
| 7440-28-0 | Thallium  | 0.09          | U |    | F  |
| 7440-62-2 | Vanadium  | 7.2           | B |    | P  |
| 7440-66-6 | Zinc      | 26.2          |   |    | P  |
|           | Cyanide   | 0.56          |   |    | CA |

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

1  
INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MEBQH4

Lab Name: SVL\_ANALYTICAL\_INC. \_\_\_\_\_ Contract: 68-D5-0138

Lab Code: SILVER Case No.: 26593\_ SAS No.: \_\_\_\_\_ SDG No.: MEBQF5\_

Matrix (soil/water): SOIL\_ Lab Sample ID: MEBQH4

Level (low/med): LOW\_ Date Received: 10/22/98

% Solids: \_94.5

Concentration Units (ug/L or mg/kg dry weight): MG/KG

| CAS No.   | Analyte   | Concentration | C | Q  | M  |
|-----------|-----------|---------------|---|----|----|
| 7429-90-5 | Aluminum  | 2500          |   |    | P  |
| 7440-36-0 | Antimony  | 8.9           | U |    | P  |
| 7440-38-2 | Arsenic   | 1.7           | B | SN | F  |
| 7440-39-3 | Barium    | 13.4          | B |    | P  |
| 7440-41-7 | Beryllium | 0.13          | U |    | P  |
| 7440-43-9 | Cadmium   | 0.97          | U |    | P  |
| 7440-70-2 | Calcium   | 2650          |   |    | P  |
| 7440-47-3 | Chromium  | 5.4           |   |    | P  |
| 7440-48-4 | Cobalt    | 2.8           | B |    | P  |
| 7440-50-8 | Copper    | 9.1           |   |    | P  |
| 7439-89-6 | Iron      | 4610          |   |    | P  |
| 7439-92-1 | Lead      | 6.7           |   |    | F  |
| 7439-95-4 | Magnesium | 1410          |   |    | P  |
| 7439-96-5 | Manganese | 144           |   |    | P  |
| 7439-97-6 | Mercury   | 0.06          | B |    | CV |
| 7440-02-0 | Nickel    | 9.5           |   |    | P  |
| 7440-09-7 | Potassium | 196           | U |    | P  |
| 7782-49-2 | Selenium  | 0.13          | U | W  | F  |
| 7440-22-4 | Silver    | 1.1           | U |    | P  |
| 7440-23-5 | Sodium    | 37.6          | B |    | P  |
| 7440-28-0 | Thallium  | 0.08          | U |    | F  |
| 7440-62-2 | Vanadium  | 8.8           | B |    | P  |
| 7440-66-6 | Zinc      | 22.2          |   |    | P  |
|           | Cyanide   | 0.37          | B |    | CA |

Color Before: BROWN\_ Clarity Before: \_\_\_\_\_ Texture: MEDIUM

Color After: YELLOW\_ Clarity After: \_\_\_\_\_ Artifacts: \_\_\_\_\_

Comments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MEBQH5

Lab Name: SVL\_ANALYTICAL\_INC. Contract: 68-D5-0138

Lab Code: SILVER Case No.: 26593 SAS No.: SDG No.: MEBQF5

Matrix (soil/water): SOIL Lab Sample ID: MEBQH5

Level (low/med): LOW Date Received: 10/22/98

% Solids: 95.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

| CAS No.   | Analyte   | Concentration | C | Q  | M  |
|-----------|-----------|---------------|---|----|----|
| 7429-90-5 | Aluminum  | 2120          | - |    | P  |
| 7440-36-0 | Antimony  | 8.8           | U |    | P  |
| 7440-38-2 | Arsenic   | 0.80          | B | WN | F  |
| 7440-39-3 | Barium    | 12.1          | B |    | P  |
| 7440-41-7 | Beryllium | 0.13          | U |    | P  |
| 7440-43-9 | Cadmium   | 0.96          | U |    | P  |
| 7440-70-2 | Calcium   | 12600         | - |    | P  |
| 7440-47-3 | Chromium  | 5.2           | - |    | P  |
| 7440-48-4 | Cobalt    | 2.8           | B |    | P  |
| 7440-50-8 | Copper    | 8.0           | - |    | P  |
| 7439-89-6 | Iron      | 3620          | - |    | P  |
| 7439-92-1 | Lead      | 6.0           | - |    | F  |
| 7439-95-4 | Magnesium | 3500          | - |    | P  |
| 7439-96-5 | Manganese | 62.6          | - |    | P  |
| 7439-97-6 | Mercury   | 0.05          | U |    | CV |
| 7440-02-0 | Nickel    | 5.9           | U |    | P  |
| 7440-09-7 | Potassium | 194           | U |    | P  |
| 7782-49-2 | Selenium  | 0.13          | U | W  | F  |
| 7440-22-4 | Silver    | 1.1           | U |    | P  |
| 7440-23-5 | Sodium    | 32.6          | B |    | P  |
| 7440-28-0 | Thallium  | 0.08          | U |    | F  |
| 7440-62-2 | Vanadium  | 7.6           | B |    | P  |
| 7440-66-6 | Zinc      | 24.1          | - |    | P  |
|           | Cyanide   | 0.58          | - |    | CA |

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MEBQJ1

Lab Name: SVL\_ANALYTICAL\_INC. Contract: 68-D5-0138

Lab Code: SILVER Case No.: 26593 SAS No.: SDG No.: MEBQF5

Matrix (soil/water): WATER Lab Sample ID: MEBQJ1

Level (low/med): LOW Date Received: 10/22/98

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

| CAS No.   | Analyte   | Concentration | C | Q | M  |
|-----------|-----------|---------------|---|---|----|
| 7429-90-5 | Aluminum  | 26.0          | U |   | P  |
| 7440-36-0 | Antimony  | 42.2          | U |   | P  |
| 7440-38-2 | Arsenic   | 0.90          | U | N | F  |
| 7440-39-3 | Barium    | 1.9           | U |   | P  |
| 7440-41-7 | Beryllium | 0.60          | U |   | P  |
| 7440-43-9 | Cadmium   | 4.6           | U |   | P  |
| 7440-70-2 | Calcium   | 68.4          | B |   | P  |
| 7440-47-3 | Chromium  | 7.0           | U |   | P  |
| 7440-48-4 | Cobalt    | 7.8           | U |   | P  |
| 7440-50-8 | Copper    | 4.1           | U |   | P  |
| 7439-89-6 | Iron      | 12.8          | B |   | P  |
| 7439-92-1 | Lead      | 0.50          | U |   | F  |
| 7439-95-4 | Magnesium | 50.1          | U |   | P  |
| 7439-96-5 | Manganese | 2.9           | U |   | P  |
| 7439-97-6 | Mercury   | 0.10          | U |   | CV |
| 7440-02-0 | Nickel    | 28.3          | U |   | P  |
| 7440-09-7 | Potassium | 926           | U |   | P  |
| 7782-49-2 | Selenium  | 0.60          | U | N | F  |
| 7440-22-4 | Silver    | 5.3           | U |   | P  |
| 7440-23-5 | Sodium    | 81.6          | U |   | P  |
| 7440-28-0 | Thallium  | 0.40          | U |   | F  |
| 7440-62-2 | Vanadium  | 12.3          | U |   | P  |
| 7440-66-6 | Zinc      | 11.2          | B |   | P  |
|           | Cyanide   | 12.0          |   |   | CA |

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

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INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

MEBQJ2

Lab Name: SVL\_ANALYTICAL\_INC. Contract: 68-D5-0138

Lab Code: SILVER Case No.: 26593 SAS No.: SDG No.: MEBQF5

Matrix (soil/water): WATER Lab Sample ID: MEBQJ2

Level (low/med): LOW Date Received: 10/22/98

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

| CAS No.   | Analyte   | Concentration | C | Q  | M  |
|-----------|-----------|---------------|---|----|----|
| 7429-90-5 | Aluminum  | 58.0          | B |    | P  |
| 7440-36-0 | Antimony  | 42.2          | U |    | P  |
| 7440-38-2 | Arsenic   | 1.0           | B | WN | F  |
| 7440-39-3 | Barium    | 192           | B |    | P  |
| 7440-41-7 | Beryllium | 0.60          | U |    | P  |
| 7440-43-9 | Cadmium   | 4.6           | U |    | P  |
| 7440-70-2 | Calcium   | 609000        |   |    | P  |
| 7440-47-3 | Chromium  | 7.0           | U |    | P  |
| 7440-48-4 | Cobalt    | 7.8           | U |    | P  |
| 7440-50-8 | Copper    | 4.1           | U |    | P  |
| 7439-89-6 | Iron      | 4490          |   |    | P  |
| 7439-92-1 | Lead      | 0.50          | U |    | F  |
| 7439-95-4 | Magnesium | 52700         |   |    | P  |
| 7439-96-5 | Manganese | 662           |   |    | P  |
| 7439-97-6 | Mercury   | 0.10          | U |    | CV |
| 7440-02-0 | Nickel    | 28.3          | U |    | P  |
| 7440-09-7 | Potassium | 25200         |   |    | P  |
| 7782-49-2 | Selenium  | 6.0           | U | WN | F  |
| 7440-22-4 | Silver    | 5.3           | U |    | P  |
| 7440-23-5 | Sodium    | 179000        |   |    | P  |
| 7440-28-0 | Thallium  | 0.40          | U |    | F  |
| 7440-62-2 | Vanadium  | 12.3          | U |    | P  |
| 7440-66-6 | Zinc      | 3.2           | U |    | P  |
|           | Cyanide   | 31.9          |   |    | CA |

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

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Semivolatle Analysis Data - ECMQ9  
Tentatively Identified Compounds

CASE NO: 26593  
SDG NO: ECMMO

LABORATORY: IEA-NJ

| CAS NUMBER | COMPOUND NAME             | RT    | ESTIMATED CONCENTRATION | Q |
|------------|---------------------------|-------|-------------------------|---|
|            | UNKNOWN                   | 4.60  | 4.000                   |   |
|            | UNKNOWN                   | 5.85  | 6.000                   |   |
|            | PROPENE, TRICHLORO ISOMER | 5.93  | 24.000                  |   |
|            | UNKNOWN ACID              | 10.37 | 3.000                   |   |
|            | UNKNOWN                   | 16.37 | 2.000                   |   |

FILE NAME: ECMMO.SDG DATE: 11/19/98 TIME: 09:47 CADRE98

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Semivolatle Analysis Data - ECMR1  
Tentatively Identified Compounds

CASE NO: 26593  
SDG NO: ECMMO

LABORATORY: IEA-NJ

| CAS NUMBER | COMPOUND NAME             | RT   | ESTIMATED CONCENTRATION | Q |
|------------|---------------------------|------|-------------------------|---|
|            | UNKNOWN                   | 4.32 | 4.000                   |   |
|            | PROPENE TRICHLORO ISOMER  | 4.53 | 3.000                   |   |
|            | UNKNOWN                   | 4.60 | 6.000                   |   |
|            | PROPENE TRICHLORO ISOMER  | 5.11 | 3.000                   |   |
|            | UNKNOWN                   | 5.79 | 4.000                   |   |
|            | UNKNOWN                   | 5.85 | 15.000                  |   |
|            | PROPENE, TRICHLORO ISOMER | 5.93 | 63.000                  |   |

FILE NAME: ECMMO.SDG DATE: 11/19/98 TIME: 09:47 CADRE98

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Semivolatle Analysis Data - ECMM4  
Tentatively Identified Compounds

CASE NO: 26593  
SDG NO: ECMMO

LABORATORY: IEA-NJ

| CAS NUMBER | COMPOUND NAME              | RT    | ESTIMATED CONCENTRATION | Q |
|------------|----------------------------|-------|-------------------------|---|
|            | UNKNOWN ALCOHOL            | 4.15  | 3.000                   |   |
|            | UNKNOWN                    | 4.29  | 3.000                   |   |
|            | ALDOL CONDENSATION PRODUCT | 4.58  | 5.000                   |   |
|            | PROPENE TRICHLORO ISOMER   | 5.91  | 7.000                   |   |
|            | UNKNOWN ALCOHOL            | 6.77  | 2.000                   |   |
|            | UNKNOWN ACID               | 10.33 | 2.000                   |   |
|            | UNKNOWN ALCOHOL            | 11.22 | 5.000                   |   |
|            | UNKNOWN                    | 11.38 | 11.000                  |   |
|            | UNKNOWN ACID               | 11.46 | 3.000                   |   |
|            | UNKNOWN                    | 13.84 | 2.000                   |   |
|            | UNKNOWN                    | 14.00 | 4.000                   |   |
|            | UNKNOWN                    | 14.05 | 3.000                   |   |
|            | UNKNOWN                    | 16.33 | 3.000                   |   |

FILE NAME: ECMMO.SDG DATE: 11/19/98 TIME: 09:47 CADRE98

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Semivolatle Analysis Data - ECMM0  
Tentatively Identified Compounds

CASE NO: 26593  
SDG NO: ECMMO

LABORATORY: IEA-NJ

| CAS NUMBER | COMPOUND NAME              | RT   | ESTIMATED CONCENTRATION | Q |
|------------|----------------------------|------|-------------------------|---|
|            | PROPENE TRICHLORO ISOMER   | 4.51 | 4.000                   |   |
|            | ALDOL CONDENSATION PRODUCT | 4.58 | 9.000                   |   |
|            | PROPENE TRICHLORO ISOMER   | 5.09 | 4.000                   |   |
|            | UNKNOWN AROMATIC           | 5.38 | 15.000                  |   |
|            | UNKNOWN                    | 5.74 | 5.000                   |   |
|            | UNKNOWN                    | 5.82 | 7.000                   |   |
|            | PROPENE TRICHLORO ISOMER   | 5.91 | 34.000                  |   |
|            | UNKNOWN                    | 7.48 | 9.000                   |   |

FILE NAME: ECMMO.SDG DATE: 11/19/98 TIME: 09:47 CADRE98

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Semivolatile Analysis Data - SBLKH6  
Tentatively Identified Compounds

CASE NO: 26593  
SDG NO: ECMMO

LABORATORY: IEA-NJ

| CAS NUMBER | COMPOUND NAME | RT   | ESTIMATED CONCENTRATION | Q |
|------------|---------------|------|-------------------------|---|
|            | UNKNOWN       | 5.85 | 2.000                   |   |

FILE NAME: ECMMO.SDG DATE: 11/19/98 TIME: 09:47 CADRE98

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Semivolatile Analysis Data - ECMM5RE  
Tentatively Identified Compounds

CASE NO: 26593  
SDG NO: ECMMO

LABORATORY: IEA-NJ

| CAS NUMBER | COMPOUND NAME                  | RT    | ESTIMATED CONCENTRATION | Q |
|------------|--------------------------------|-------|-------------------------|---|
|            | UNKNOWN ALCOHOL                | 7.42  | 5.000                   |   |
|            | PHENOL, 2-(1,1-DIMETHYLETHYL)- | 9.46  | 2.000                   |   |
|            | UNKNOWN ACID                   | 10.20 | 4.000                   |   |
|            | UNKNOWN                        | 11.62 | 2.000                   |   |
|            | 2(3H)-BENZOTHIAZOLONE          | 13.74 | 43.000                  |   |
|            | UNKNOWN ACID                   | 17.36 | 3.000                   |   |

FILE NAME: ECMMO.SDG DATE: 11/19/98 TIME: 09:47 CADRE98

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Semivolatile Analysis Data - ECMQ2RE  
Tentatively Identified Compounds

CASE NO: 26593  
SDG NO: ECMMO

LABORATORY: IEA-NJ

| CAS NUMBER | COMPOUND NAME   | RT    | ESTIMATED CONCENTRATION | Q |
|------------|-----------------|-------|-------------------------|---|
|            | UNKNOWN ALCOHOL | 4.09  | 4.000                   |   |
|            | UNKNOWN         | 4.23  | 6.000                   |   |
|            | UNKNOWN ALCOHOL | 5.68  | 2.000                   |   |
|            | UNKNOWN ACID    | 10.32 | 2.000                   |   |
|            | UNKNOWN         | 19.07 | 4.000                   |   |

FILE NAME: ECMMO.SDG DATE: 11/19/98 TIME: 09:47 CADRE98

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Analytical Results (Qualified Data)

Case #: 26593  
 Site: HIMCO DUMP, ELKHART  
 Lab.: IEANJ  
 Reviewer:  
 Date:

SDG: ECM00  
 HIMCO DUMP, ELKHART  
 IEANJ

| Sample Number:            | ECMM3      | ECMM4    | ECMM5    | ECM00    | ECM01      |      |        |      |        |      |
|---------------------------|------------|----------|----------|----------|------------|------|--------|------|--------|------|
| Sampling Location:        | TRIP BLANK | WT114A   | WT101A   | WT101A   | TRIP BLANK |      |        |      |        |      |
| Matrix:                   | Water      | Water    | Water    | Water    | Water      |      |        |      |        |      |
| Units:                    | ug/L       | ug/L     | ug/L     | ug/L     | ug/L       |      |        |      |        |      |
| Date Sampled:             | 10/20/98   | 10/20/98 | 10/21/98 | 10/21/98 | 10/01/98   |      |        |      |        |      |
| %Moisture:                |            |          |          |          |            |      |        |      |        |      |
| PH:                       |            |          |          |          |            |      |        |      |        |      |
| Dilution Factor:          | 1.0        | 1.0      | 1.0      | 1.0      | 1.0        |      |        |      |        |      |
| Volatile Compound         | Result     | Flag     | Result   | Flag     | Result     | Flag | Result | Flag | Result | Flag |
| Chloromethane             | 10         | U        | 10       | U        | 10         | U    | 10     | U    | 10     | U    |
| Bromomethane              | 10         | U        | 10       | U        | 10         | U    | 10     | U    | 10     | U    |
| Vinyl Chloride            | 10         | U        | 10       | U        | 10         | U    | 10     | U    | 10     | U    |
| Chloroethane              | 10         | U        | 10       | U        | 10         | U    | 10     | U    | 10     | U    |
| Methylene Chloride        | 10         | U        | 10       | U        | 10         | U    | 10     | U    | 10     | U    |
| Acetone                   | 10         | U        | 10       | U        | 10         | U    | 10     | U    | 10     | U    |
| Carbon Disulfide          | 10         | U        | 10       | U        | 10         | U    | 10     | U    | 10     | U    |
| 1,1-Dichloroethene        | 10         | U        | 10       | U        | 10         | U    | 10     | U    | 10     | U    |
| 1,1-Dichloroethane        | 10         | U        | 4        | J        | 10         | U    | 10     | U    | 10     | U    |
| Total 1,2-Dichloroethene  | 10         | U        | 10       | U        | 10         | U    | 10     | U    | 10     | U    |
| Chloroform                | 10         | U        | 10       | U        | 10         | U    | 10     | U    | 10     | U    |
| 1,2-Dichloroethane        | 10         | U        | 10       | U        | 10         | U    | 10     | U    | 10     | U    |
| 2-Butanone                | 10         | U        | 10       | U        | 10         | U    | 10     | U    | 10     | U    |
| 1,1,1-Trichloroethane     | 10         | U        | 10       | U        | 10         | U    | 10     | U    | 10     | U    |
| Carbon Tetrachloride      | 10         | U        | 10       | U        | 10         | U    | 10     | U    | 10     | U    |
| Bromodichloromethane      | 10         | U        | 10       | U        | 10         | U    | 10     | U    | 10     | U    |
| 1,2-Dichloropropane       | 10         | U        | 10       | U        | 10         | U    | 10     | U    | 10     | U    |
| Cis-1,3-Dichloropropene   | 10         | U        | 10       | U        | 10         | U    | 10     | U    | 10     | U    |
| Trichloroethene           | 10         | U        | 10       | U        | 10         | U    | 10     | U    | 10     | U    |
| Dibromochloromethane      | 10         | U        | 10       | U        | 10         | U    | 10     | U    | 10     | U    |
| 1,1,2-Trichloroethane     | 10         | U        | 10       | U        | 10         | U    | 10     | U    | 10     | U    |
| Benzene                   | 10         | U        | 10       | U        | 10         | U    | 10     | U    | 10     | U    |
| Trans-1,3-Dichloropropene | 10         | U        | 10       | U        | 10         | U    | 10     | U    | 10     | U    |
| Bromoform                 | 10         | U        | 10       | U        | 10         | U    | 10     | U    | 10     | U    |
| 4-Methyl-2-pentanone      | 10         | U        | 10       | U        | 10         | U    | 10     | U    | 10     | U    |
| 2-Hexanone                | 10         | U        | 10       | U        | 10         | U    | 10     | U    | 10     | U    |
| Tetrachloroethene         | 10         | U        | 10       | U        | 10         | U    | 10     | U    | 10     | U    |
| 1,1,2,2-Tetrachloroethane | 10         | U        | 10       | U        | 10         | U    | 10     | U    | 10     | U    |
| Toluene                   | 10         | U        | 10       | U        | 10         | U    | 10     | U    | 10     | U    |
| Chlorobenzene             | 10         | U        | 10       | U        | 10         | U    | 10     | U    | 10     | U    |
| Ethylbenzene              | 10         | U        | 10       | U        | 10         | U    | 10     | U    | 10     | U    |
| Styrene                   | 10         | U        | 10       | U        | 10         | U    | 10     | U    | 10     | U    |
| Xylene (total)            | 10         | U        | 10       | U        | 10         | U    | 10     | U    | 10     | U    |

Case #: 26593

SDG: ECMM0

Site:

HIMCO DUMP, ELKHART

Lab.:

IEANJ

Reviewer:

Date:

| Sample Number:            | ECMM0    | ECMM0MS  | ECMM0MSD | ECMM1      | ECMM2    |      |        |      |        |      |
|---------------------------|----------|----------|----------|------------|----------|------|--------|------|--------|------|
| Sampling Location:        | WT102A   | WT102A   | WT102A   | TRIP BLANK | WT112A   |      |        |      |        |      |
| Matrix:                   | Water    | Water    | Water    | Water      | Water    |      |        |      |        |      |
| Units:                    | ug/L     | ug/L     | ug/L     | ug/L       | ug/L     |      |        |      |        |      |
| Date Sampled:             | 10/19/98 | 10/19/98 | 10/19/98 | 10/02/98   | 10/20/98 |      |        |      |        |      |
| %Moisture:                |          |          |          |            |          |      |        |      |        |      |
| PH:                       |          |          |          |            |          |      |        |      |        |      |
| Dilution Factor:          | 1.0      | 1.0      | 1.0      | 1.0        | 1.0      |      |        |      |        |      |
| Volatile Compound         | Result   | Flag     | Result   | Flag       | Result   | Flag | Result | Flag | Result | Flag |
| Chloromethane             | 10       | U        | 10       | U          | 10       | U    | 10     | UJ   | 10     | U    |
| Bromomethane              | 10       | UJ       | 10       | UJ         | 10       | UJ   | 10     | UJ   | 10     | UJ   |
| Vinyl Chloride            | 10       | U        | 10       | U          | 10       | U    | 10     | UJ   | 10     | U    |
| Chloroethane              | 10       | U        | 10       | U          | 10       | U    | 10     | UJ   | 10     | U    |
| Methylene Chloride        | 10       | U        | 10       | U          | 10       | U    | 10     | UJ   | 10     | U    |
| Acetone                   | 10       | U        | 10       | U          | 10       | U    | 10     | UJ   | 10     | U    |
| Carbon Disulfide          | 10       | U        | 10       | U          | 10       | U    | 10     | UJ   | 10     | U    |
| 1,1-Dichloroethene        | 10       | U        | 41       |            | 43       |      | 10     | UJ   | 10     | U    |
| 1,1-Dichloroethane        | 10       | U        | 10       | U          | 10       | U    | 10     | UJ   | 10     | U    |
| Total 1,2-Dichloroethene  | 10       | U        | 10       | U          | 10       | U    | 10     | UJ   | 10     | U    |
| Chloroform                | 10       | U        | 10       | U          | 10       | U    | 10     | UJ   | 10     | U    |
| 1,2-Dichloroethane        | 10       | U        | 10       | U          | 10       | U    | 10     | UJ   | 10     | U    |
| 2-Butanone                | 10       | UJ       | 10       | UJ         | 10       | UJ   | 10     | UJ   | 10     | UJ   |
| 1,1,1-Trichloroethane     | 10       | U        | 10       | U          | 10       | U    | 10     | UJ   | 10     | U    |
| Carbon Tetrachloride      | 10       | U        | 10       | U          | 10       | U    | 10     | UJ   | 10     | U    |
| Bromodichloromethane      | 10       | U        | 10       | U          | 10       | U    | 10     | UJ   | 10     | U    |
| 1,2-Dichloropropane       | 10       | U        | 10       | U          | 10       | U    | 10     | UJ   | 10     | U    |
| Cis-1,3-Dichloropropene   | 10       | U        | 10       | U          | 10       | U    | 10     | UJ   | 10     | U    |
| Trichloroethene           | 10       | U        | 47       |            | 46       |      | 10     | UJ   | 10     | U    |
| Dibromochloromethane      | 10       | U        | 10       | U          | 10       | U    | 10     | UJ   | 10     | U    |
| 1,1,2-Trichloroethane     | 10       | U        | 10       | U          | 10       | U    | 10     | UJ   | 10     | U    |
| Benzene                   | 10       | U        | 43       |            | 42       |      | 10     | UJ   | 10     | U    |
| Trans-1,3-Dichloropropene | 10       | U        | 10       | U          | 10       | U    | 10     | UJ   | 10     | U    |
| Bromoform                 | 10       | U        | 10       | U          | 10       | U    | 10     | UJ   | 10     | U    |
| 4-Methyl-2-pentanone      | 10       | U        | 10       | U          | 10       | U    | 10     | UJ   | 10     | U    |
| 2-Hexanone                | 10       | U        | 10       | U          | 10       | U    | 10     | UJ   | 10     | U    |
| Tetrachloroethene         | 10       | U        | 10       | U          | 10       | U    | 10     | UJ   | 10     | U    |
| 1,1,2,2-Tetrachloroethane | 10       | UJ       | 10       | UJ         | 10       | UJ   | 10     | UJ   | 10     | U    |
| Toluene                   | 10       | U        | 44       |            | 41       |      | 10     | UJ   | 10     | U    |
| Chlorobenzene             | 10       | U        | 45       |            | 44       |      | 10     | UJ   | 10     | U    |
| Ethylbenzene              | 10       | U        | 10       | U          | 10       | U    | 10     | UJ   | 10     | U    |
| Styrene                   | 10       | U        | 10       | U          | 10       | U    | 10     | UJ   | 10     | U    |
| Xylene (total)            | 10       | U        | 10       | U          | 10       | U    | 10     | UJ   | 10     | U    |

Analytical Results (Qualified Data)

Case #: 26593

SDG: ECMM0

Site:

HIMCO DUMP, ELKHART

Lab.:

JEANJ

Reviewer:

Date:

| Sample Number:               | ECMM0    | ECMM0MS  | ECMM0MSD | ECMM2    | ECMM4    |      |        |      |        |      |
|------------------------------|----------|----------|----------|----------|----------|------|--------|------|--------|------|
| Sampling Location:           | WT102A   | WT102A   | WT102A   | WT112A   | WT114A   |      |        |      |        |      |
| Matrix:                      | Water    | Water    | Water    | Water    | Water    |      |        |      |        |      |
| Units:                       | ug/L     | ug/L     | ug/L     | ug/L     | ug/L     |      |        |      |        |      |
| Date Sampled:                | 10/19/98 | 10/19/98 | 10/19/98 | 10/20/98 | 10/20/98 |      |        |      |        |      |
| Moisture:                    |          |          |          |          |          |      |        |      |        |      |
| PH:                          |          |          |          |          |          |      |        |      |        |      |
| Dilution Factor:             | 1.0      | 1.0      | 1.0      | 1.0      | 1.0      |      |        |      |        |      |
| Semivolatile Compound        | Result   | Flag     | Result   | Flag     | Result   | Flag | Result | Flag | Result | Flag |
| Phenol                       | 10       | U        | 62       |          | 58       |      | 10     | U    | 10     | U    |
| bis(2-Chloroethyl)ether      | 10       | U        | 10       | U        | 10       | U    | 10     | U    | 10     | U    |
| 2-Chlorophenol               | 10       | U        | 61       |          | 58       |      | 10     | U    | 10     | U    |
| 1,3-Dichlorobenzene          | 10       | U        | 30       |          | 30       |      | 10     | U    | 10     | U    |
| 1,4-Dichlorobenzene          | 10       | U        | 27       |          | 28       |      | 10     | U    | 10     | U    |
| 1,2-Dichlorobenzene          | 10       | U        | 10       | U        | 10       | U    | 10     | U    | 10     | U    |
| 2-Methylphenol               | 10       | U        | 10       | U        | 10       | U    | 10     | U    | 10     | U    |
| 2,2'-oxybis(1-chloropropane) | 10       | U        | 10       | U        | 10       | U    | 10     | U    | 10     | U    |
| 4-Methylphenol               | 10       | U        | 10       | U        | 10       | U    | 10     | U    | 10     | U    |
| N-Nitroso-di-n-propylamine   | 10       | U        | 29       |          | 28       |      | 10     | U    | 10     | U    |
| Hexachloroethane             | 10       | U        | 10       | U        | 10       | U    | 10     | U    | 10     | U    |
| Nitrobenzene                 | 10       | U        | 10       | U        | 10       | U    | 10     | U    | 10     | U    |
| Isophorone                   | 10       | U        | 10       | U        | 10       | U    | 10     | U    | 10     | U    |
| 2-Nitrophenol                | 10       | U        | 10       | U        | 10       | U    | 10     | U    | 10     | U    |
| 2,4-Dimethylphenol           | 10       | U        | 10       | U        | 10       | U    | 10     | U    | 10     | U    |
| bis(2-Chloroethoxy)methane   | 10       | U        | 10       | U        | 10       | U    | 10     | U    | 10     | U    |
| 2,4-Dichlorophenol           | 10       | U        | 10       | U        | 10       | U    | 10     | U    | 10     | U    |
| 1,2,4-Trichlorobenzene       | 10       | U        | 30       |          | 30       |      | 10     | U    | 10     | U    |
| Naphthalene                  | 10       | U        | 10       | U        | 10       | U    | 10     | U    | 10     | U    |
| 4-Chloroaniline              | 10       | U        | 10       | U        | 10       | U    | 10     | U    | 10     | U    |
| Hexachlorobutadiene          | 10       | U        | 10       | U        | 10       | U    | 10     | U    | 10     | U    |
| 4-Chloro-3-methylphenol      | 10       | U        | 57       |          | 53       |      | 10     | U    | 10     | U    |
| 2-Methylnaphthalene          | 10       | U        | 10       | U        | 10       | U    | 10     | U    | 10     | U    |
| Hexachlorocyclopentadiene    | 10       | U        | 10       | U        | 10       | U    | 10     | U    | 10     | U    |
| 2,4,6-Trichlorophenol        | 10       | U        | 10       | U        | 10       | U    | 10     | U    | 10     | U    |
| 2,4,5-Trichlorophenol        | 25       | U        | 25       | U        | 25       | U    | 26     | U    | 26     | U    |
| 2-Chloronaphthalene          | 10       | U        | 10       | U        | 10       | U    | 10     | U    | 10     | U    |
| 2-Nitroaniline               | 25       | U        | 25       | U        | 25       | U    | 26     | U    | 26     | U    |
| Dimethylphthalate            | 10       | U        | 10       | U        | 10       | U    | 10     | U    | 10     | U    |
| Acenaphthylene               | 10       | U        | 10       | U        | 10       | U    | 10     | U    | 10     | U    |
| 2,6-Dinitrotoluene           | 10       | U        | 10       | U        | 10       | U    | 10     | U    | 10     | U    |
| 3-Nitroaniline               | 25       | U        | 25       | U        | 25       | U    | 26     | U    | 26     | U    |

Analytical Results (Qualified Data)

Case #: 26593  
 Site: HIMCO DUMP, ELKHART  
 Lab.: IEANJ  
 Reviewer:  
 Date:

SDG: ECM02

| Sample Number:            | ECM02    | ECM03    | ECM04    |      |        |      |        |      |        |      |
|---------------------------|----------|----------|----------|------|--------|------|--------|------|--------|------|
| Sampling Location:        | WT115A   | WT115A   | WT116A   |      |        |      |        |      |        |      |
| Matrix:                   | Water    | Water    | Water    |      |        |      |        |      |        |      |
| Units:                    | ug/L     | ug/L     | ug/L     |      |        |      |        |      |        |      |
| Date Sampled:             | 10/21/98 | 10/21/98 | 10/21/98 |      |        |      |        |      |        |      |
| %Moisture:                |          |          |          |      |        |      |        |      |        |      |
| PH:                       |          |          |          |      |        |      |        |      |        |      |
| Dilution Factor:          | 1.0      | 1.0      | 1.0      |      |        |      |        |      |        |      |
| Volatile Compound         | Result   | Flag     | Result   | Flag | Result | Flag | Result | Flag | Result | Flag |
| Chloromethane             | 10       | U        | 10       | U    | 10     | U    |        |      |        |      |
| Bromomethane              | 10       | UJ       | 10       | UJ   | 10     | UJ   |        |      |        |      |
| Vinyl Chloride            | 10       | U        | 10       | U    | 10     | U    |        |      |        |      |
| Chloroethane              | 10       | U        | 10       | U    | 10     | U    |        |      |        |      |
| Methylene Chloride        | 10       | U        | 10       | U    | 10     | U    |        |      |        |      |
| Acetone                   | 10       | U        | 10       | U    | 10     | U    |        |      |        |      |
| Carbon Disulfide          | 10       | U        | 10       | U    | 10     | U    |        |      |        |      |
| 1,1-Dichloroethene        | 10       | U        | 10       | U    | 10     | U    |        |      |        |      |
| 1,1-Dichloroethane        | 10       | U        | 10       | U    | 5      | J    |        |      |        |      |
| Total 1,2-Dichloroethene  | 10       | U        | 10       | U    | 10     | U    |        |      |        |      |
| Chloroform                | 10       | U        | 10       | U    | 10     | U    |        |      |        |      |
| 1,2-Dichloroethane        | 10       | U        | 10       | U    | 10     | U    |        |      |        |      |
| 2-Butanone                | 10       | UJ       | 10       | UJ   | 10     | UJ   |        |      |        |      |
| 1,1,1-Trichloroethane     | 10       | U        | 10       | U    | 10     | U    |        |      |        |      |
| Carbon Tetrachloride      | 10       | U        | 10       | U    | 10     | U    |        |      |        |      |
| Bromodichloromethane      | 10       | U        | 10       | U    | 10     | U    |        |      |        |      |
| 1,2-Dichloropropane       | 10       | U        | 10       | U    | 10     | U    |        |      |        |      |
| Cis-1,3-Dichloropropene   | 10       | U        | 10       | U    | 10     | U    |        |      |        |      |
| Trichloroethene           | 10       | U        | 10       | U    | 10     | U    |        |      |        |      |
| Dibromochloromethane      | 10       | U        | 10       | U    | 10     | U    |        |      |        |      |
| 1,1,2-Trichloroethane     | 10       | U        | 10       | U    | 10     | U    |        |      |        |      |
| Benzene                   | 10       | U        | 10       | U    | 10     | U    |        |      |        |      |
| Trans-1,3-Dichloropropene | 10       | U        | 10       | U    | 10     | U    |        |      |        |      |
| Bromoform                 | 10       | U        | 10       | U    | 10     | U    |        |      |        |      |
| 4-Methyl-2-pentanone      | 10       | U        | 10       | U    | 10     | U    |        |      |        |      |
| 2-Hexanone                | 10       | U        | 10       | U    | 10     | U    |        |      |        |      |
| Tetrachloroethene         | 10       | U        | 10       | U    | 10     | U    |        |      |        |      |
| 1,1,2,2-Tetrachloroethane | 10       | UJ       | 10       | UJ   | 10     | UJ   |        |      |        |      |
| Toluene                   | 10       | U        | 10       | U    | 10     | U    |        |      |        |      |
| Chlorobenzene             | 10       | U        | 10       | U    | 10     | U    |        |      |        |      |
| Ethylbenzene              | 10       | U        | 10       | U    | 10     | U    |        |      |        |      |
| Styrene                   | 10       | U        | 10       | U    | 10     | U    |        |      |        |      |
| Xylene (total)            | 10       | U        | 10       | U    | 10     | U    |        |      |        |      |

| Sample Number:             | ECMM0    |      | ECMM0MS  |      | ECMM0MSD |      | ECMM2    |      | ECMM4    |      |
|----------------------------|----------|------|----------|------|----------|------|----------|------|----------|------|
| Sampling Location:         | WT102A   |      | WT102A   |      | WT102A   |      | WT112A   |      | WT114A   |      |
| Matrix:                    | Water    |      |
| Units:                     | ug/L     |      |
| Date Sampled:              | 10/19/98 |      | 10/19/98 |      | 10/19/98 |      | 10/20/98 |      | 10/20/98 |      |
| %Moisture:                 |          |      |          |      |          |      |          |      |          |      |
| PH:                        |          |      |          |      |          |      |          |      |          |      |
| Dilution Factor:           | 1.0      |      | 1.0      |      | 1.0      |      | 1.0      |      | 1.0      |      |
| Semivolatle Compound       | Result   | Flag |
| Acenaphthene               | 10       | U    | 33       |      | 31       |      | 10       | U    | 10       | U    |
| 2,4-Dinitrophenol          | 25       | U    | 25       | U    | 25       | U    | 26       | U    | 26       | U    |
| 4-Nitrophenol              | 25       | U    | 51       |      | 51       |      | 26       | U    | 26       | U    |
| Dibenzofuran               | 10       | U    |
| 2,4-Dinitrotoluene         | 10       | U    | 34       |      | 34       |      | 10       | U    | 10       | U    |
| Diethylphthalate           | 10       | U    | 10       | U    | 10       | U    | 10       | U    | 2        | J    |
| 4-Chlorophenyl-phenylether | 10       | U    |
| Fluorene                   | 10       | U    |
| 4-Nitroaniline             | 25       | U    | 25       | U    | 25       | U    | 26       | U    | 26       | U    |
| 4,6-Dinitro-2-methylphenol | 25       | U    | 25       | U    | 25       | U    | 26       | U    | 26       | U    |
| N-Nitrosodiphenylamine     | 10       | U    |
| 4-Bromophenyl-phenylether  | 10       | U    |
| Hexachlorobenzene          | 10       | U    |
| Pentachlorophenol          | 25       | U    | 60       |      | 54       |      | 26       | U    | 26       | U    |
| Phenanthrene               | 10       | U    |
| Anthracene                 | 10       | U    |
| Carbazole                  | 10       | U    |
| Di-n-butylphthalate        | 10       | U    |
| Fluoranthene               | 10       | U    |
| Pyrene                     | 10       | U    | 40       |      | 37       |      | 10       | U    | 10       | U    |
| Butylbenzylphthalate       | 10       | U    |
| 3,3'-Dichlorobenzidine     | 10       | U    |
| Benzo(a)anthracene         | 10       | U    |
| Chrysene                   | 10       | U    |
| bis(2-Ethylhexyl)phthalate | 3        | J    | 10       | U    | 10       | U    | 10       | U    | 10       | U    |
| Di-n-octylphthalate        | 10       | U    |
| Benzo(b)fluoranthene       | 10       | U    |
| Benzo(k)fluoranthene       | 10       | U    |
| Benzo(a)pyrene             | 10       | U    |
| Indeno(1.2.3-cd)pyrene     | 10       | U    |
| Dibenz(a,h)anthracene      | 10       | U    |
| Benzo(g,h,i)perylene       | 10       | U    |

Analytical Results (Qualified Data)

Case #: 26593  
 Site:  
 Lab.:  
 Reviewer:  
 Date:

SDG: ECMM0  
 HIMCO DUMP, ELKHART  
 IEANJ

*1° FIRE dump*

| Sample Number:               | ECMMS    | ECMMSRE  | ECM00    | ECM02    | ECM02RE  |      |        |      |        |      |
|------------------------------|----------|----------|----------|----------|----------|------|--------|------|--------|------|
| Sampling Location:           | WT101A   | WT101A   | WT101A   | WT115A   | WT115A   |      |        |      |        |      |
| Matrix:                      | Water    | Water    | Water    | Water    | Water    |      |        |      |        |      |
| Units:                       | ug/L     | ug/L     | ug/L     | ug/L     | ug/L     |      |        |      |        |      |
| Date Sampled:                | 10/21/98 | 10/21/98 | 10/21/98 | 10/21/98 | 10/21/98 |      |        |      |        |      |
| %Moisture:                   |          |          |          |          |          |      |        |      |        |      |
| PH:                          |          |          |          |          |          |      |        |      |        |      |
| Dilution Factor:             | 1.0      | 1.0      | 1.0      | 1.0      | 1.0      |      |        |      |        |      |
| Semivolatiles Compound       | Result   | Flag     | Result   | Flag     | Result   | Flag | Result | Flag | Result | Flag |
| Phenol                       | 10       | U        | 10       | UJ       | 10       | U    | 10     | U    | 10     | UJ   |
| bis(2-Chloroethyl)ether      | 10       | U        | 10       | UJ       | 10       | U    | 10     | U    | 10     | UJ   |
| 2-Chlorophenol               | 10       | U        | 10       | UJ       | 10       | U    | 10     | U    | 10     | UJ   |
| 1,3-Dichlorobenzene          | 10       | U        | 10       | UJ       | 10       | U    | 10     | U    | 10     | UJ   |
| 1,4-Dichlorobenzene          | 10       | U        | 10       | UJ       | 10       | U    | 10     | U    | 10     | UJ   |
| 1,2-Dichlorobenzene          | 10       | U        | 10       | UJ       | 10       | U    | 10     | U    | 10     | UJ   |
| 2-Methylphenol               | 10       | U        | 10       | UJ       | 10       | U    | 10     | U    | 10     | UJ   |
| 2,2'-oxybis(1-chloropropane) | 10       | U        | 10       | UJ       | 10       | U    | 10     | U    | 10     | UJ   |
| 4-Methylphenol               | 10       | U        | 10       | UJ       | 10       | U    | 10     | U    | 10     | UJ   |
| N-Nitroso-di-n-propylamine   | 10       | U        | 10       | UJ       | 10       | U    | 10     | U    | 10     | UJ   |
| Hexachloroethane             | 10       | U        | 10       | UJ       | 10       | U    | 10     | U    | 10     | UJ   |
| Nitrobenzene                 | 10       | U        | 10       | UJ       | 10       | U    | 10     | U    | 10     | UJ   |
| Isophorone                   | 10       | U        | 10       | UJ       | 10       | U    | 10     | U    | 10     | UJ   |
| 2-Nitrophenol                | 10       | U        | 10       | UJ       | 10       | U    | 10     | U    | 10     | UJ   |
| 2,4-Dimethylphenol           | 10       | U        | 10       | UJ       | 10       | U    | 10     | U    | 10     | UJ   |
| bis(2-Chloroethoxy)methane   | 10       | U        | 10       | UJ       | 10       | U    | 10     | U    | 10     | UJ   |
| 2,4-Dichlorophenol           | 10       | U        | 10       | UJ       | 10       | U    | 10     | U    | 10     | UJ   |
| 1,2,4-Trichlorobenzene       | 10       | U        | 10       | UJ       | 10       | U    | 10     | U    | 10     | UJ   |
| Naphthalene                  | 10       | U        | 10       | UJ       | 10       | U    | 10     | U    | 10     | UJ   |
| 4-Chloroaniline              | 10       | UJ       | 10       | UJ       | 10       | UJ   | 10     | UJ   | 10     | UJ   |
| Hexachlorobutadiene          | 10       | U        | 10       | UJ       | 10       | U    | 10     | UJ   | 10     | UJ   |
| 4-Chloro-3-methylphenol      | 10       | U        | 10       | UJ       | 10       | U    | 10     | U    | 10     | UJ   |
| 2-Methylnaphthalene          | 10       | U        | 10       | UJ       | 10       | U    | 10     | U    | 10     | UJ   |
| Hexachlorocyclopentadiene    | 10       | R        | 10       | UJ       | 10       | U    | 10     | UJ   | 10     | UJ   |
| 2,4,6-Trichlorophenol        | 10       | R        | 10       | UJ       | 10       | U    | 10     | UJ   | 10     | UJ   |
| 2,4,5-Trichlorophenol        | 25       | R        | 25       | UJ       | 26       | U    | 26     | UJ   | 25     | UJ   |
| 2-Chloronaphthalene          | 10       | R        | 10       | UJ       | 10       | U    | 10     | UJ   | 10     | UJ   |
| 2-Nitroaniline               | 25       | R        | 25       | UJ       | 26       | U    | 26     | UJ   | 25     | UJ   |
| Dimethylphthalate            | 7        | J        | 10       | UJ       | 10       | U    | 10     | UJ   | 10     | UJ   |
| Acenaphthylene               | 10       | R        | 10       | UJ       | 10       | U    | 10     | UJ   | 10     | UJ   |
| 2,6-Dinitrotoluene           | 10       | R        | 10       | UJ       | 10       | U    | 10     | UJ   | 10     | UJ   |
| 3-Nitroaniline               | 25       | R        | 25       | UJ       | 26       | U    | 26     | UJ   | 25     | UJ   |

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| Sample Number:             | ECMM5    | ECMM5RE  | ECM00    | ECM02    | ECM02RE  |      |        |      |        |      |
|----------------------------|----------|----------|----------|----------|----------|------|--------|------|--------|------|
| Sampling Location:         | WT101A   | WT101A   | WT101A   | WT115A   | WT115A   |      |        |      |        |      |
| Matrix:                    | Water    | Water    | Water    | Water    | Water    |      |        |      |        |      |
| Units:                     | ug/L     | ug/L     | ug/L     | ug/L     | ug/L     |      |        |      |        |      |
| Date Sampled:              | 10/21/98 | 10/21/98 | 10/21/98 | 10/21/98 | 10/21/98 |      |        |      |        |      |
| %Moisture:                 |          |          |          |          |          |      |        |      |        |      |
| PH:                        |          |          |          |          |          |      |        |      |        |      |
| Dilution Factor:           | 1.0      | 1.0      | 1.0      | 1.0      | 1.0      |      |        |      |        |      |
| Semivolatile Compound      | Result   | Flag     | Result   | Flag     | Result   | Flag | Result | Flag | Result | Flag |
| Acenaphthene               | 10       | R        | 10       | U        | 10       | U    | 10     | U    | 10     | U    |
| 2,4-Dinitrophenol          | 25       | R        | 25       | U        | 26       | U    | 26     | U    | 25     | U    |
| 4-Nitrophenol              | 25       | R        | 25       | U        | 26       | U    | 26     | U    | 25     | U    |
| Dibenzofuran               | 10       | R        | 10       | U        | 10       | U    | 10     | U    | 10     | U    |
| 2,4-Dinitrotoluene         | 10       | R        | 10       | U        | 10       | U    | 10     | U    | 10     | U    |
| Diethylphthalate           | 19       | J        | 7        | J        | 9        | J    | 10     | U    | 10     | U    |
| 4-Chlorophenyl-phenylether | 10       | R        | 10       | U        | 10       | U    | 10     | U    | 10     | U    |
| Fluorene                   | 10       | R        | 10       | U        | 10       | U    | 10     | U    | 10     | U    |
| 4-Nitroaniline             | 25       | U        | 25       | U        | 26       | U    | 26     | U    | 25     | U    |
| 4,6-Dinitro-2-methylphenol | 25       | U        | 25       | U        | 26       | U    | 26     | U    | 25     | U    |
| N-Nitrosodiphenylamine     | 10       | U        | 10       | U        | 10       | U    | 10     | U    | 10     | U    |
| 4-Bromophenyl-phenylether  | 10       | U        | 10       | U        | 10       | U    | 10     | U    | 10     | U    |
| Hexachlorobenzene          | 10       | U        | 10       | U        | 10       | U    | 10     | U    | 10     | U    |
| Pentachlorophenol          | 25       | U        | 25       | U        | 26       | U    | 26     | U    | 25     | U    |
| Phenanthrene               | 10       | U        | 10       | U        | 10       | U    | 10     | U    | 10     | U    |
| Anthracene                 | 10       | U        | 10       | U        | 10       | U    | 10     | U    | 10     | U    |
| Carbazole                  | 10       | U        | 10       | U        | 10       | U    | 10     | U    | 10     | U    |
| Di-n-butylphthalate        | 10       | U        | 10       | U        | 10       | U    | 10     | U    | 10     | U    |
| Fluoranthene               | 10       | U        | 10       | U        | 10       | U    | 10     | U    | 10     | U    |
| Pyrene                     | 10       | U        | 10       | U        | 10       | U    | 10     | U    | 10     | U    |
| Butylbenzylphthalate       | 10       | U        | 10       | U        | 10       | U    | 10     | U    | 10     | U    |
| 3,3'-Dichlorobenzidine     | 10       | U        | 10       | U        | 10       | U    | 10     | U    | 10     | U    |
| Benzo(a)anthracene         | 10       | U        | 10       | U        | 10       | U    | 10     | U    | 10     | U    |
| Chrysene                   | 10       | U        | 10       | U        | 10       | U    | 10     | U    | 10     | U    |
| bis(2-Ethylhexyl)phthalate | 10       | U        | 10       | U        | 10       | U    | 10     | U    | 10     | U    |
| Di-n-octylphthalate        | 10       | R        | 10       | U        | 10       | U    | 10     | R    | 10     | U    |
| Benzo(b)fluoranthene       | 10       | R        | 10       | U        | 10       | U    | 10     | R    | 10     | U    |
| Benzo(k)fluoranthene       | 10       | R        | 10       | U        | 10       | U    | 10     | R    | 10     | U    |
| Benzo(a)pyrene             | 10       | R        | 10       | U        | 10       | U    | 10     | R    | 10     | U    |
| Indeno(1,2,3-cd)pyrene     | 10       | R        | 10       | U        | 10       | U    | 10     | R    | 10     | U    |
| Dibenz(a,h)anthracene      | 10       | R        | 10       | U        | 10       | U    | 10     | R    | 10     | U    |
| Benzo(g,h,i)perylene       | 10       | R        | 10       | U        | 10       | U    | 10     | R    | 10     | U    |

Analytical Results (Qualified Data)

Case #: 26593  
 Site:  
 Lab. :  
 Reviewer:  
 Date:

SDG: ECM00  
 HIMCO DUMP, ELKHART  
 IEANJ

WT115A      WT119A dup      WT119A air site

| Sample Number:               | ECM03    | ECM04    | ECM09    | ECMR1    |        |      |        |      |        |      |
|------------------------------|----------|----------|----------|----------|--------|------|--------|------|--------|------|
| Sampling Location:           | WT115A   | WT116A   | WT119A   | WT119A   |        |      |        |      |        |      |
| Matrix:                      | Water    | Water    | Water    | Water    |        |      |        |      |        |      |
| Units:                       | ug/L     | ug/L     | ug/L     | ug/L     |        |      |        |      |        |      |
| Date Sampled:                | 10/21/98 | 10/21/98 | 10/22/98 | 10/22/98 |        |      |        |      |        |      |
| %Moisture:                   |          |          |          |          |        |      |        |      |        |      |
| PH:                          |          |          |          |          |        |      |        |      |        |      |
| Dilution Factor:             | 1.0      | 1.0      | 1.0      | 1.0      |        |      |        |      |        |      |
| Semivolatile Compound        | Result   | Flag     | Result   | Flag     | Result | Flag | Result | Flag | Result | Flag |
| Phenol                       | 10       | U        | 10       | U        | 10     | U    | 10     | U    |        |      |
| bis(2-Chloroethyl)ether      | 10       | U        | 10       | U        | 10     | U    | 10     | U    |        |      |
| 2-Chlorophenol               | 10       | U        | 10       | U        | 10     | U    | 10     | U    |        |      |
| 1,3-Dichlorobenzene          | 10       | U        | 10       | U        | 10     | U    | 10     | U    |        |      |
| 1,4-Dichlorobenzene          | 10       | U        | 10       | U        | 10     | U    | 10     | U    |        |      |
| 1,2-Dichlorobenzene          | 10       | U        | 10       | U        | 10     | U    | 10     | U    |        |      |
| 2-Methylphenol               | 10       | U        | 10       | U        | 10     | U    | 10     | U    |        |      |
| 2,2'-oxybis(1-chloropropane) | 10       | U        | 10       | U        | 10     | U    | 10     | U    |        |      |
| 4-Methylphenol               | 10       | U        | 10       | U        | 10     | U    | 10     | U    |        |      |
| N-Nitroso-di-n-propylamine   | 10       | U        | 10       | U        | 10     | U    | 10     | U    |        |      |
| Hexachloroethane             | 10       | U        | 10       | U        | 10     | U    | 10     | U    |        |      |
| Nitrobenzene                 | 10       | U        | 10       | U        | 10     | U    | 10     | U    |        |      |
| Isophorone                   | 10       | U        | 10       | U        | 10     | U    | 10     | U    |        |      |
| 2-Nitrophenol                | 10       | U        | 10       | U        | 10     | U    | 10     | U    |        |      |
| 2,4-Dimethylphenol           | 10       | U        | 10       | U        | 10     | U    | 10     | U    |        |      |
| bis(2-Chloroethoxy)methane   | 10       | U        | 10       | U        | 10     | U    | 10     | U    |        |      |
| 2,4-Dichlorophenol           | 10       | U        | 10       | U        | 10     | U    | 10     | U    |        |      |
| 1,2,4-Trichlorobenzene       | 10       | U        | 10       | U        | 10     | U    | 10     | U    |        |      |
| Naphthalene                  | 10       | U        | 10       | U        | 10     | U    | 10     | U    |        |      |
| 4-Chloroaniline              | 10       | U        | 10       | U        | 10     | U    | 10     | U    |        |      |
| Hexachlorobutadiene          | 10       | U        | 10       | U        | 10     | U    | 10     | U    |        |      |
| 4-Chloro-3-methylphenol      | 10       | U        | 10       | U        | 10     | U    | 10     | U    |        |      |
| 2-Methylnaphthalene          | 10       | U        | 10       | U        | 10     | U    | 10     | U    |        |      |
| Hexachlorocyclopentadiene    | 10       | U        | 10       | U        | 10     | U    | 10     | U    |        |      |
| 2,4,6-Trichlorophenol        | 10       | U        | 10       | U        | 10     | U    | 10     | U    |        |      |
| 2,4,5-Trichlorophenol        | 25       | U        | 26       | U        | 26     | U    | 26     | U    |        |      |
| 2-Chloronaphthalene          | 10       | U        | 10       | U        | 10     | U    | 10     | U    |        |      |
| 2-Nitroaniline               | 25       | U        | 26       | U        | 26     | U    | 26     | U    |        |      |
| Dimethylphthalate            | 10       | U        | 10       | U        | 10     | U    | 10     | U    |        |      |
| Acenaphthylene               | 10       | U        | 10       | U        | 10     | U    | 10     | U    |        |      |
| 2,6-Dinitrotoluene           | 10       | U        | 10       | U        | 10     | U    | 10     | U    |        |      |
| 3-Nitroaniline               | 25       | U        | 26       | U        | 26     | U    | 26     | U    |        |      |

| Sample Number:             | ECM03    | ECM04    | ECM09    | ECMR1    |        |      |        |      |        |      |
|----------------------------|----------|----------|----------|----------|--------|------|--------|------|--------|------|
| Sampling Location:         | WT115A   | WT116A   | WT119A   | WT119A   |        |      |        |      |        |      |
| Matrix:                    | Water    | Water    | Water    | Water    |        |      |        |      |        |      |
| Units:                     | ug/L     | ug/L     | ug/L     | ug/L     |        |      |        |      |        |      |
| Date Sampled:              | 10/21/98 | 10/21/98 | 10/22/98 | 10/22/98 |        |      |        |      |        |      |
| Moisture:                  |          |          |          |          |        |      |        |      |        |      |
| PH:                        |          |          |          |          |        |      |        |      |        |      |
| Dilution Factor:           | 1.0      | 1.0      | 1.0      | 1.0      |        |      |        |      |        |      |
| Semivolatile Compound      | Result   | Flag     | Result   | Flag     | Result | Flag | Result | Flag | Result | Flag |
| Acenaphthene               | 10       | U        | 10       | U        | 10     | U    | 10     | U    |        |      |
| 2,4-Dinitrophenol          | 25       | U        | 26       | U        | 26     | U    | 26     | U    |        |      |
| 4-Nitrophenol              | 25       | U        | 26       | U        | 26     | U    | 26     | U    |        |      |
| Dibenzofuran               | 10       | U        | 10       | U        | 10     | U    | 10     | U    |        |      |
| 2,4-Dinitrotoluene         | 10       | U        | 10       | U        | 10     | U    | 10     | U    |        |      |
| Diethylphthalate           | 10       | U        | 10       | U        | 10     | U    | 10     | U    |        |      |
| 4-Chlorophenyl-phenylether | 10       | U        | 10       | U        | 10     | U    | 10     | U    |        |      |
| Fluorene                   | 10       | U        | 10       | U        | 10     | U    | 10     | U    |        |      |
| 4-Nitroaniline             | 25       | U        | 26       | U        | 26     | U    | 26     | U    |        |      |
| 4,6-Dinitro-2-methylphenol | 25       | U        | 26       | U        | 26     | U    | 26     | U    |        |      |
| N-Nitrosodiphenylamine     | 10       | U        | 10       | U        | 10     | U    | 10     | U    |        |      |
| 4-Bromophenyl-phenylether  | 10       | U        | 10       | U        | 10     | U    | 10     | U    |        |      |
| Hexachlorobenzene          | 10       | U        | 10       | U        | 10     | U    | 10     | U    |        |      |
| Pentachlorophenol          | 25       | U        | 26       | U        | 26     | U    | 26     | U    |        |      |
| Phenanthrene               | 10       | U        | 10       | U        | 10     | U    | 10     | U    |        |      |
| Anthracene                 | 10       | U        | 10       | U        | 10     | U    | 10     | U    |        |      |
| Carbazole                  | 10       | U        | 10       | U        | 10     | U    | 10     | U    |        |      |
| Di-n-butylphthalate        | 10       | U        | 10       | U        | 10     | U    | 10     | U    |        |      |
| Fluoranthene               | 10       | U        | 10       | U        | 10     | U    | 10     | U    |        |      |
| Pyrene                     | 10       | U        | 10       | U        | 10     | U    | 10     | U    |        |      |
| Butylbenzylphthalate       | 10       | U        | 10       | U        | 10     | U    | 10     | U    |        |      |
| 3,3'-Dichlorobenzidine     | 10       | U        | 10       | U        | 10     | U    | 10     | U    |        |      |
| Benzo(a)anthracene         | 10       | U        | 10       | U        | 10     | U    | 10     | U    |        |      |
| Chrysene                   | 10       | U        | 10       | U        | 10     | U    | 10     | U    |        |      |
| bis(2-Ethylhexyl)phthalate | 10       | U        | 2        | U        | 10     | U    | 3      | U    |        |      |
| Di-n-octylphthalate        | 10       | U        | 10       | U        | 10     | U    | 10     | U    |        |      |
| Benzo(b)fluoranthene       | 10       | U        | 10       | U        | 10     | U    | 10     | U    |        |      |
| Benzo(k)fluoranthene       | 10       | U        | 10       | U        | 10     | U    | 10     | U    |        |      |
| Benzo(a)pyrene             | 10       | U        | 10       | U        | 10     | U    | 10     | U    |        |      |
| Indeno(1,2,3-cd)pyrene     | 10       | U        | 10       | U        | 10     | U    | 10     | U    |        |      |
| Dibenz(a,h)anthracene      | 10       | U        | 10       | U        | 10     | U    | 10     | U    |        |      |
| Benzo(g,h,i)perylene       | 10       | U        | 10       | U        | 10     | U    | 10     | U    |        |      |

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION V

ESD Central Regional Laboratory  
Data Tracking Form for Contract Samples

Data Set No: \_\_\_\_\_ CERCLIS No: 1N  
Case No: 26593 Site Name Location: Hinned Dump  
Contractor or EPA Lab: IEA Data User: USA CE  
No. of Samples: 15 Date Sampled or Data Received: 12-16-98

Have Chain-of-Custody records been received? Yes  No   
Have traffic reports or packing lists been received? Yes  No   
If no, are traffic report or packing list numbers written on the chain-of-custody record? Yes  No   
If no, which traffic report or packing list numbers are missing?  
\_\_\_\_\_  
\_\_\_\_\_

Are basic data forms in? Yes  No   
No of samples claimed: 15 No. of samples received: 15  
Received by: Lynette Burnett Date: 12-16-98  
Received by LSSS: Lynette Burnett Date: 12-16-98  
Review started: 12/16/98 Reviewer Signature: [Signature]  
Total time spent on review: 15 Date review completed: 12/11  
Copied by: Lynette Burnett Date: 12-16-98  
Mailed to user by: Lynette Burnett Date: 12-16-98

**DATA USER:**

Please fill in the blanks below and return this form to:  
Sylvia Griffen, Data mgmt. Coordinator, Region V, 5SCL

Data received by: \_\_\_\_\_ Date: \_\_\_\_\_  
Data review received by: \_\_\_\_\_ Date: \_\_\_\_\_

|                         |     |                               |     |      |
|-------------------------|-----|-------------------------------|-----|------|
| Inorganic Data Complete | [ ] | Suitable for Intended Purpose | [ ] | ✓ if |
| Organic Data Complete   | [ ] | Suitable for Intended Purpose | [ ] | ✓ if |
| Dioxin Data Complete    | [ ] | Suitable for Intended Purpose | [ ] | ✓ if |
| SAS Data Complete       | [ ] | Suitable for Intended Purpose | [ ] | ✓ if |

**PROBLEMS:** Please indicate reasons why data are not suitable for uses.  
\_\_\_\_\_  
\_\_\_\_\_

Received by Data Mgmt. Coordinator for Files. Data: \_\_\_\_\_

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION V

DATE: \_\_\_\_\_

SUBJECT: Review of Data  
Received for Review on November 10, 1998

FROM: Stephen L. Ostrodka, Chief (SRT-4J) *for Steve Ostrodka*  
Superfund Technical Support Section *Richard L. Bognik*  
*12/4/98*

TO: Data User: USACE

We have reviewed the data for the following case:

Site name: Himco Dump (IN)

Case number: 26593 SDG Number: ECMM8

Number and Type of Samples: 9 soil samples

Sample Numbers: ECMM8-ECMM9, ECMN5, ECMN8-ECMN9, ECMP0-ECMP2

Laboratory: IEA Hrs. for Review: hrs + 0.5

Following are our findings:

*The data are acceptable and usable with the qualifications described in the attached narrative.*  
*Richard L. Bognik*

CC: Cecilia Moore  
Region 5 TPO  
Mail Code: SM-5J

Case Number : 26593  
Site Name: Himco Dump (IN)

SDG Number: ECMM8  
Laboratory: IEA

**Below is a summary of the out-of-control audits and the possible effects on the data for this case:**

Nine soil samples (ECMM8-ECMM9, ECMN5, ECMN8-ECMN9, ECMP0-ECMP2) were collected on 10/20/98. The lab received the samples on 10/21/98 in good condition. All samples were analyzed for the list of VOA and SVOA analytes. All samples were analyzed according to CLP SOW OLMO3.2 3/90.

Prepared By: Steffanie Tobin (Lockheed/ESAT)  
Date: December 1, 1998

Case Number : 26593  
Site Name: Himco Dump (IN)

SDG Number: ECMM8  
Laboratory: IEA

### 1. HOLDING TIME

No problems were found for this qualification.

### 2. GC/MS TUNING AND GC INSTRUMENT PERFORMANCE

No problems were found for this qualification.

### 3. CALIBRATION

The following volatile samples are associated with a continuing calibration whose corresponding initial calibration has percent relative standard deviation (%RSD) outside primary criteria. Hits are qualified "J" and non-detects are qualified "UJ".

Bromomethane, 2-Butanone  
VBLKE7, VHBLKE2

Chloroethane  
ECMM8, ECMM9, ECMN5, ECMN6, ECMN8, ECMN9  
ECMP0, ECMP0MS, ECMP0MSD, ECMP1, ECMP2, VBLKE3  
VBLKE4

The following volatile samples are associated with a continuing calibration percent difference (%D) outside primary criteria. Hits are qualified "J" and non-detects are qualified "UJ".

Chloromethane, Tetrachloroethene  
ECMM8, ECMM9, ECMN5, ECMN6, ECMN8, ECMN9, ECMP0, ECMP0MS, ECMP0MSD,  
ECMP1, ECMP2, VBLKE3, VBLKE4

Bromoform  
ECMM8, ECMM9, ECMN5, ECMN6, ECMN8, ECMP0, ECMP0MS, ECMP0MSD,  
ECMP1, ECMP2, VBLKE3

1,1,2,2-Tetrachloroethane  
VBLKE7, VHBLKE2

The following semivolatile samples are associated with a continuing calibration percent difference (%D) outside primary criteria. Hits are qualified "J" and non-detects are qualified "UJ".

4-Chloroaniline, Hexachlorobutadiene  
ECMN5DL, ECMN6DL, ECMP1, ECMP2

Case Number : 26593  
Site Name: Himco Dump (IN)

SDG Number: ECMM8  
Laboratory: IEA

#### 4. METHOD BLANKS

No problems were found for this qualification.

#### 5. SYSTEM MONITORING COMPOUND AND SURROGATE RECOVERY

The following semivolatile samples have one surrogate recovery which below the criteria window. Hits and non-detects are not flagged since the protocol allow at least one surrogate to be out of control before a reanalysis or qualification is required.

ECMP0MS

#### 6. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

No problems were found for this qualification.

#### 7. FIELD BLANK AND FIELD DUPLICATE

None of the samples in this data set are field blanks or field duplicates.

#### 8. INTERNAL STANDARDS

No problems were found for this qualification.

#### 9. COMPOUND IDENTIFICATION

After reviewing the mass spectra and chromatograms, it appears that all VOA, SVOA, and Pesticide/PCB compounds were properly identified.

#### 10. COMPOUND QUANTITATION AND REPORTED DETECTION LIMITS

The following semivolatile samples have analyte concentrations below the quantitation limit (CRQL). All results below the CRQL are qualified "J".

ECMN5  
Pyrene

ECMN6  
Naphthalene, Fluoranthene, Pyrene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene

ECMN8  
bis(2-Ethylhexyl)phthalate

Prepared By: Steffanie Tobin (Lockheed/ESAT)

Date: December 1, 1998

Case Number : 26593  
Site Name: Himco Dump (IN)

SDG Number: ECMM8  
Laboratory: IEA

ECMN9  
Fluoranthene, Pyrene, Benzo(b)fluoranthene

ECMP1  
bis(2-Ethylhexyl)phthalate

## 11. SYSTEM PERFORMANCE

GC/MS baseline indicated acceptable performance.

## 12. ADDITIONAL INFORMATION

Below is the summary of the pH for the samples of this dataset:

| Sample ID | pH  |
|-----------|-----|
| ECMM8     | 6.6 |
| ECMM9     | 7.5 |
| ECMN5     | 6.8 |
| ECMN6     | 6.8 |
| ECMN8     | 9.6 |
| ECMN9     | 7.7 |
| ECMP0     | 6.3 |
| ECMP1     | 6.5 |
| ECMP2     | 6.9 |

No flags were reported for the SVOA TIC results. Please, refer to Form I SVOA for the final flags of the SVOA TIC results.

## CADRE Data Qualifier Sheet

### Qualifiers

### Data Qualifier Definitions

- U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- J The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.
- UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the action limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
- N The analysis indicates the present of an analyte for which there is presumptive evidence to make a tentative identification.
- NJ The analysis indicates the present of an analyte for which there is presumptive evidence to make a tentative identification and the associated numerical value represents its approximate concentration.
- R The data are unusable. (The compound may or may not be present)
- H Sample result is estimated and biased high.
- L Sample result is estimated and biased low.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION V

ESD Central Regional Laboratory  
Data Tracking Form for Contract Samples

Data Set No: \_\_\_\_\_ CERCLIS No: IN/054J  
Case No: 26593 Site Name Location: Alvina Dump  
Contractor or EPA Lab: IEA Data User: USA OI  
No. of Samples: 9 Date Sampled or Data Received: 11-10-98

Have Chain-of-Custody records been received? Yes  No \_\_\_\_\_  
Have traffic reports or packing lists been received? Yes  No \_\_\_\_\_  
If no, are traffic report or packing list numbers written on the chain-of-custody record? Yes  No \_\_\_\_\_  
If no, which traffic report or packing list numbers are missing?  
\_\_\_\_\_  
\_\_\_\_\_

Are basic data forms in? Yes  No \_\_\_\_\_  
No of samples claimed: 9 No. of samples received: 9  
Received by: Lynette Burnett Date: 11-10-98  
Received by LSSS: Lynette Burnett Date: 11-10-98  
Review started: 11-23<sup>30</sup>-98 Reviewer Signature: Stephanie Tobin  
Total time spent on review: 7 hrs Date review completed: 12-01-  
Copied by: Lynette Burnett Date: 12-15-98  
Mailed to user by: Lynette Burnett Date: 12-15-98

**DATA USER:**

Please fill in the blanks below and return this form to:  
Sylvia Griffen, Data mgmt. Coordinator, Region V, 5SCL

Data received by: \_\_\_\_\_ Date: \_\_\_\_\_

Data review received by: \_\_\_\_\_ Date: \_\_\_\_\_

Inorganic Data Complete [ ] Suitable for Intended Purpose [ ]  if C  
Organic Data Complete [ ] Suitable for Intended Purpose [ ]  if C  
Dioxin Data Complete [ ] Suitable for Intended Purpose [ ]  if C  
SAS Data Complete [ ] Suitable for Intended Purpose [ ]  if C

**PROBLEMS:** Please indicate reasons why data are not suitable for your uses.  
\_\_\_\_\_  
\_\_\_\_\_

Received by Data Mgmt. Coordinator for Files. Data: \_\_\_\_\_

Semivolatile Analysis Data - SBLKH4  
Tentatively Identified Compounds

CASE NO: 26593  
SDG NO: ECMM8

LABORATORY: IEA-NJ

| CAS NUMBER | COMPOUND NAME              | RT    | ESTIMATED CONCENTRATION | Q |
|------------|----------------------------|-------|-------------------------|---|
|            | 3-PENTEN-2-ONE, 4-METHYL-  | 3.93  | 96.000                  |   |
|            | UNKNOWN                    | 4.30  | 120.000                 |   |
|            | UNKNOWN                    | 4.41  | 320.000                 |   |
|            | ALDOL CONDENSATION PRODUCT | 4.81  | 81000.000               |   |
|            | UNKNOWN ALCOHOL            | 5.22  | 88.000                  |   |
|            | UNKNOWN                    | 5.57  | 2000.000                |   |
|            | UNKNOWN                    | 6.30  | 360.000                 |   |
|            | UNKNOWN                    | 6.45  | 150.000                 |   |
|            | UNKNOWN ALCOHOL            | 8.36  | 76.000                  |   |
|            | UNKNOWN ACID               | 10.35 | 80.000                  |   |
|            | UNKNOWN ACID               | 12.47 | 100.000                 |   |

FILE NAME: ECMM8.SDG DATE: 11/10/98 TIME: 15:34 CADRE98

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Semivolatile Analysis Data - ECMM8  
Tentatively Identified Compounds

CASE NO: 26593  
SDG NO: ECMM8

LABORATORY: IEA-NJ

| CAS NUMBER | COMPOUND NAME              | RT    | ESTIMATED CONCENTRATION | Q |
|------------|----------------------------|-------|-------------------------|---|
|            | UNKNOWN                    | 4.31  | 140.000                 |   |
|            | UNKNOWN                    | 4.38  | 300.000                 |   |
|            | ALDOL CONDENSATION PRODUCT | 4.81  | 84000.000               |   |
|            | UNKNOWN                    | 5.56  | 1900.000                |   |
|            | UNKNOWN                    | 6.30  | 360.000                 |   |
|            | UNKNOWN                    | 6.46  | 130.000                 |   |
|            | UNKNOWN ALCOHOL            | 8.36  | 73.000                  |   |
|            | UNKNOWN ACID               | 10.16 | 79.000                  |   |
|            | UNKNOWN ACID               | 10.35 | 150.000                 |   |
|            | UNKNOWN ACID               | 12.47 | 140.000                 |   |
|            | UNKNOWN                    | 17.42 | 110.000                 |   |
|            | UNKNOWN                    | 18.34 | 200.000                 |   |
|            | UNKNOWN                    | 19.93 | 79.000                  |   |
|            | UNKNOWN                    | 20.33 | 92.000                  |   |
|            | UNKNOWN                    | 22.18 | 2200.000                |   |
|            | UNKNOWN                    | 29.10 | 110.000                 |   |
|            | UNKNOWN                    | 31.44 | 140.000                 |   |

FILE NAME: ECMM8.SDG DATE: 11/10/98 TIME: 15:34 CADRE98

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Semivolatile Analysis Data - ECMM9  
Tentatively Identified Compounds

CASE NO: 26593  
SDG NO: ECMM8

LABORATORY: IEA-NJ

| CAS NUMBER | COMPOUND NAME              | RT    | ESTIMATED CONCENTRATION | Q |
|------------|----------------------------|-------|-------------------------|---|
|            | UNKNOWN                    | 4.29  | 120.000                 |   |
|            | UNKNOWN                    | 4.39  | 360.000                 |   |
|            | ALDOL CONDENSATION PRODUCT | 4.79  | 90000.000               |   |
|            | UNKNOWN ALCOHOL            | 5.21  | 130.000                 |   |
|            | UNKNOWN                    | 5.56  | 2200.000                |   |
|            | UNKNOWN                    | 6.30  | 410.000                 |   |
|            | UNKNOWN                    | 6.46  | 150.000                 |   |
|            | UNKNOWN ALCOHOL            | 8.36  | 90.000                  |   |
|            | UNKNOWN ACID               | 10.16 | 100.000                 |   |
|            | UNKNOWN ACID               | 10.35 | 180.000                 |   |
|            | UNKNOWN                    | 11.05 | 88.000                  |   |
|            | UNKNOWN ACID               | 12.47 | 170.000                 |   |
|            | UNKNOWN                    | 15.46 | 150.000                 |   |
|            | UNKNOWN ACID               | 15.71 | 150.000                 |   |
|            | UNKNOWN                    | 15.82 | 260.000                 |   |
|            | UNKNOWN                    | 15.86 | 90.000                  |   |
|            | UNKNOWN                    | 16.16 | 140.000                 |   |
|            | UNKNOWN                    | 16.58 | 80.000                  |   |
|            | UNKNOWN                    | 17.23 | 200.000                 |   |
|            | UNKNOWN                    | 17.69 | 180.000                 |   |
|            | UNKNOWN                    | 18.03 | 75.000                  |   |
|            | UNKNOWN                    | 18.30 | 200.000                 |   |
|            | UNKNOWN PAH                | 18.58 | 160.000                 |   |
|            | UNKNOWN ACID               | 18.76 | 190.000                 |   |
|            | UNKNOWN CARBOXYLIC ACID    | 18.95 | 410.000                 |   |
|            | UNKNOWN                    | 19.63 | 86.000                  |   |
|            | UNKNOWN CARBOXYLIC ACID    | 19.70 | 340.000                 |   |
|            | UNKNOWN                    | 20.67 | 170.000                 |   |
|            | UNKNOWN                    | 21.48 | 480.000                 |   |
|            | UNKNOWN                    | 22.12 | 350.000                 |   |

FILE NAME: ECMM8.SDG DATE: 11/10/98 TIME: 15:34 CADRE98

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Semivolatile Analysis Data - ECMN5  
Tentatively Identified Compounds

CASE NO: 26593  
SDG NO: ECMM8

LABORATORY: IEA-NJ

| CAS NUMBER | COMPOUND NAME                       | RT    | ESTIMATED CONCENTRATION | Q |
|------------|-------------------------------------|-------|-------------------------|---|
|            | UNKNOWN                             | 4.36  | 470.000                 |   |
|            | ALDOL CONDENSATION PRODUCT          | 4.79  | 95000.000               |   |
|            | UNKNOWN ALCOHOL                     | 5.21  | 140.000                 |   |
|            | UNKNOWN                             | 5.56  | 2000.000                |   |
|            | UNKNOWN                             | 6.29  | 370.000                 |   |
|            | UNKNOWN                             | 6.44  | 130.000                 |   |
|            | UNKNOWN ACID                        | 10.16 | 82.000                  |   |
|            | UNKNOWN ACID                        | 10.35 | 150.000                 |   |
|            | UNKNOWN ACID                        | 12.47 | 150.000                 |   |
|            | PHOSPHORIC ACID, TRIS(3-METHYLPHENY | 21.24 | 97.000                  |   |

FILE NAME: ECMM8.SDG DATE: 11/10/98 TIME: 15:34 CADRE98

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Semivolatile Analysis Data - ECMN6  
Tentatively Identified Compounds

CASE NO: 26593  
SDG NO: ECMM8

LABORATORY: IEA-NJ

| CAS NUMBER                 | COMPOUND NAME | RT    | ESTIMATED CONCENTRATION | Q |
|----------------------------|---------------|-------|-------------------------|---|
| UNKNOWN                    |               | 4.32  | 320.000                 |   |
| ALDOL CONDENSATION PRODUCT |               | 4.76  | 68000.000               |   |
| UNKNOWN ALCOHOL            |               | 5.19  | 100.000                 |   |
| UNKNOWN                    |               | 5.55  | 1300.000                |   |
| UNKNOWN ACID               |               | 6.08  | 110.000                 |   |
| UNKNOWN                    |               | 6.29  | 250.000                 |   |
| UNKNOWN AROMATIC           |               | 14.22 | 140.000                 |   |
| UNKNOWN                    |               | 15.18 | 89.000                  |   |
| UNKNOWN ACID               |               | 15.33 | 96.000                  |   |
| UNKNOWN ACID               |               | 15.71 | 120.000                 |   |
| UNKNOWN AROMATIC           |               | 16.17 | 99.000                  |   |
| UNKNOWN                    |               | 16.61 | 260.000                 |   |
| UNKNOWN CARBOXYLIC ACID    |               | 19.70 | 240.000                 |   |
| UNKNOWN                    |               | 21.24 | 110.000                 |   |
| UNKNOWN                    |               | 21.29 | 110.000                 |   |
| UNKNOWN                    |               | 21.34 | 120.000                 |   |
| UNKNOWN                    |               | 21.47 | 210.000                 |   |
| UNKNOWN                    |               | 21.51 | 140.000                 |   |
| UNKNOWN                    |               | 22.09 | 300.000                 |   |
| UNKNOWN                    |               | 22.43 | 160.000                 |   |
| UNKNOWN ALCOHOL            |               | 24.69 | 220.000                 |   |
| UNKNOWN                    |               | 25.24 | 510.000                 |   |
| UNKNOWN                    |               | 25.78 | 150.000                 |   |
| UNKNOWN                    |               | 26.00 | 120.000                 |   |
| UNKNOWN                    |               | 26.09 | 360.000                 |   |
| UNKNOWN                    |               | 26.53 | 110.000                 |   |
| UNKNOWN                    |               | 29.11 | 270.000                 |   |
| UNKNOWN                    |               | 30.43 | 200.000                 |   |
| UNKNOWN PAH                |               | 30.57 | 120.000                 |   |
| UNKNOWN                    |               | 31.19 | 190.000                 |   |

FILE NAME: ECMM8.SDG DATE: 11/10/98 TIME: 15:34 CADRE98

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Semivolatile Analysis Data - ECMN8  
Tentatively Identified Compounds

CASE NO: 26593  
SDG NO: ECMM8

LABORATORY: IEA-NJ

| CAS NUMBER                 | COMPOUND NAME | RT    | ESTIMATED CONCENTRATION | Q |
|----------------------------|---------------|-------|-------------------------|---|
| 3-PENTEN-2-ONE, 4-METHYL-  |               | 3.93  | 5500.000                |   |
| ALDOL CONDENSATION PRODUCT |               | 4.97  | 140000.000              |   |
| UNKNOWN ALCOHOL            |               | 5.26  | 150.000                 |   |
| UNKNOWN                    |               | 5.59  | 2700.000                |   |
| UNKNOWN                    |               | 6.31  | 490.000                 |   |
| UNKNOWN                    |               | 7.85  | 350.000                 |   |
| UNKNOWN ALCOHOL            |               | 8.37  | 790.000                 |   |
| UNKNOWN ACID               |               | 10.35 | 140.000+                |   |
| UNKNOWN ACID               |               | 12.47 | 140.000                 |   |
| UNKNOWN                    |               | 21.51 | 1000.000                |   |
| UNKNOWN                    |               | 22.14 | 1400.000                |   |
| UNKNOWN                    |               | 28.70 | 360.000                 |   |

FILE NAME: ECMM8.SDG DATE: 11/10/98 TIME: 15:34 CADRE98

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Semivolatile Analysis Data - ECMN9  
Tentatively Identified Compounds

CASE NO: 26593  
SDG NO: ECMMB

LABORATORY: IEA-NJ

| CAS NUMBER | COMPOUND NAME              | RT    | ESTIMATED CONCENTRATION | Q |
|------------|----------------------------|-------|-------------------------|---|
|            | 3-PENTEN-2-ONE, 4-METHYL-  | 3.92  | 370.000                 |   |
|            | UNKNOWN                    | 4.30  | 160.000                 |   |
|            | UNKNOWN                    | 4.40  | 340.000                 |   |
|            | ALDOL CONDENSATION PRODUCT | 4.80  | 120000.000              |   |
|            | UNKNOWN                    | 5.56  | 2100.000                |   |
|            | UNKNOWN                    | 6.30  | 410.000                 |   |
|            | UNKNOWN                    | 11.41 | 220.000                 |   |
|            | BUTYLATED HYDROXYTOLUENE   | 11.68 | 220.000                 |   |
|            | UNKNOWN ACID               | 15.71 | 430.000                 |   |
|            | UNKNOWN                    | 15.92 | 210.000                 |   |
|            | UNKNOWN                    | 16.05 | 230.000                 |   |
|            | UNKNOWN                    | 16.10 | 350.000                 |   |
|            | UNKNOWN                    | 16.63 | 290.000                 |   |
|            | UNKNOWN                    | 16.83 | 210.000                 |   |
|            | UNKNOWN                    | 16.93 | 160.000                 |   |
|            | UNKNOWN ACID               | 17.32 | 530.000                 |   |
|            | UNKNOWN AROMATIC           | 19.69 | 440.000                 |   |
|            | UNKNOWN                    | 21.34 | 320.000                 |   |
|            | UNKNOWN                    | 21.44 | 140.000                 |   |
|            | UNKNOWN                    | 21.49 | 140.000                 |   |
|            | UNKNOWN                    | 21.53 | 180.000                 |   |
|            | UNKNOWN ALCOHOL            | 22.11 | 560.000                 |   |
|            | UNKNOWN                    | 22.43 | 240.000                 |   |
|            | UNKNOWN                    | 24.40 | 210.000                 |   |
|            | UNKNOWN                    | 25.76 | 220.000                 |   |
|            | UNKNOWN                    | 29.33 | 290.000                 |   |
|            | UNKNOWN                    | 30.46 | 240.000                 |   |
|            | UNKNOWN                    | 30.56 | 210.000                 |   |
|            | UNKNOWN PAH                | 31.18 | 250.000                 |   |

FILE NAME: ECMMB.SDG DATE: 11/10/98 TIME: 15:34 CADRE98

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Semivolatile Analysis Data - ECMPO  
Tentatively Identified Compounds

CASE NO: 26593  
SDG NO: ECMMB

LABORATORY: IEA-NJ

| CAS NUMBER | COMPOUND NAME              | RT    | ESTIMATED CONCENTRATION | Q |
|------------|----------------------------|-------|-------------------------|---|
|            | UNKNOWN                    | 4.30  | 130.000                 |   |
|            | UNKNOWN                    | 4.42  | 390.000                 |   |
|            | ALDOL CONDENSATION PRODUCT | 4.81  | 86000.000               |   |
|            | UNKNOWN ALCOHOL            | 5.22  | 150.000                 |   |
|            | UNKNOWN                    | 5.57  | 2300.000                |   |
|            | UNKNOWN                    | 6.30  | 420.000                 |   |
|            | UNKNOWN                    | 6.46  | 160.000                 |   |
|            | UNKNOWN                    | 8.36  | 87.000                  |   |
|            | UNKNOWN ACID               | 10.35 | 83.000*                 |   |
|            | UNKNOWN ACID               | 12.47 | 97.000                  |   |
|            | UNKNOWN ACID               | 15.71 | 83.000                  |   |
|            | UNKNOWN ACID               | 17.50 | 130.000                 |   |
|            | UNKNOWN                    | 18.95 | 100.000                 |   |
|            | UNKNOWN                    | 21.53 | 480.000                 |   |
|            | UNKNOWN                    | 22.15 | 740.000                 |   |
|            | UNKNOWN                    | 22.44 | 240.000                 |   |
|            | UNKNOWN                    | 29.19 | 130.000                 |   |
|            | UNKNOWN                    | 30.01 | 180.000                 |   |

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Semivolatile Analysis Data - ECMNSDL  
Tentatively Identified Compounds

CASE NO: 26593  
SDG NO: ECMM8

LABORATORY: IEA-NJ

| CAS NUMBER | COMPOUND NAME              | RT    | ESTIMATED CONCENTRATION | Q |
|------------|----------------------------|-------|-------------------------|---|
| UNKNOWN    |                            | 4.28  | 290.000                 |   |
| UNKNOWN    |                            | 4.32  | 170.000                 |   |
| UNKNOWN    | ALDOL CONDENSATION PRODUCT | 4.76  | 120000.000              |   |
| UNKNOWN    | ALCOHOL                    | 5.18  | 140.000                 |   |
| UNKNOWN    |                            | 5.53  | 1800.000                |   |
| UNKNOWN    |                            | 6.27  | 350.000                 |   |
| UNKNOWN    | ACID                       | 12.46 | 140.000                 |   |

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Semivolatile Analysis Data - ECMP1  
Tentatively Identified Compounds

CASE NO: 26593  
SDG NO: ECMM8

LABORATORY: IEA-NJ

| CAS NUMBER | COMPOUND NAME              | RT    | ESTIMATED CONCENTRATION | Q |
|------------|----------------------------|-------|-------------------------|---|
| UNKNOWN    |                            | 4.31  | 130.000                 |   |
| UNKNOWN    |                            | 4.46  | 280.000                 |   |
| UNKNOWN    | ALDOL CONDENSATION PRODUCT | 4.81  | 80000.000               |   |
| UNKNOWN    | ALCOHOL                    | 5.22  | 140.000                 |   |
| UNKNOWN    |                            | 5.57  | 2200.000                |   |
| UNKNOWN    |                            | 6.29  | 380.000                 |   |
| UNKNOWN    |                            | 6.44  | 150.000                 |   |
| UNKNOWN    | ALCOHOL                    | 8.35  | 93.000                  |   |
| UNKNOWN    | ACID                       | 12.45 | 100.000                 |   |
| UNKNOWN    | ACID                       | 15.69 | 72.000                  |   |
| UNKNOWN    |                            | 17.49 | 110.000                 |   |
| UNKNOWN    | ACID                       | 18.93 | 88.000                  |   |

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Semivolatile Analysis Data - ECMP2  
Tentatively Identified Compounds

CASE NO: 26593  
SDG NO: ECMM8

LABORATORY: IEA-NJ

| CAS NUMBER | COMPOUND NAME              | RT    | ESTIMATED CONCENTRATION | Q |
|------------|----------------------------|-------|-------------------------|---|
| UNKNOWN    |                            | 4.32  | 490.000                 |   |
| UNKNOWN    | ALDOL CONDENSATION PRODUCT | 4.77  | 120000.000              |   |
| UNKNOWN    | ALCOHOL                    | 5.19  | 150.000                 |   |
| UNKNOWN    |                            | 5.53  | 1900.000                |   |
| UNKNOWN    |                            | 6.27  | 520.000                 |   |
| UNKNOWN    | PAH                        | 20.55 | 240.000                 |   |

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Semivolatile Analysis Data - ECMN6DL  
Tentatively Identified Compounds

CASE NO: 26593  
SDG NO: ECMM8

LABORATORY: IEA-NJ

| CAS NUMBER | COMPOUND NAME              | RT    | ESTIMATED CONCENTRATION | Q |
|------------|----------------------------|-------|-------------------------|---|
| UNKNOWN    | ALDOL CONDENSATION PRODUCT | 4.61  | 120000.000              |   |
| UNKNOWN    |                            | 5.51  | 1700.000                |   |
| UNKNOWN    | ALCOHOL                    | 20.74 | 2600.000                |   |

FILE NAME: ECMM8.SDG DATE: 11/10/98 TIME: 15:34 CADRE98

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## Analytical Results (Qualified Data)

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Case #: 26593  
 Site: SDG: ECMM8  
 Lab.: HIMCO DUMP, ELKHART  
 Reviewer: IEANJ  
 Date: S. Tobin  
 12/01/98

| Sample Number:            | ECMM8     | ECMM9    | ECMN5    | ECMN6    | ECMN8    |      |        |      |        |      |
|---------------------------|-----------|----------|----------|----------|----------|------|--------|------|--------|------|
| Sampling Location:        | SB 08-0.5 | SB 08-2  | SB14-2   | SB 14-6  | SB13-2   |      |        |      |        |      |
| Matrix:                   | Soil      | Soil     | Soil     | Soil     | Soil     |      |        |      |        |      |
| Units:                    | ug/kg     | ug/kg    | ug/kg    | ug/kg    | ug/kg    |      |        |      |        |      |
| Date Sampled:             | 10/20/98  | 10/20/98 | 10/20/98 | 10/20/98 | 10/20/98 |      |        |      |        |      |
| %Moisture:                | 5         | 2        | 3        | 11       | 5        |      |        |      |        |      |
| PH:                       |           |          |          |          |          |      |        |      |        |      |
| Dilution Factor:          | 1.0       | 1.0      | 1.0      | 1.0      | 1.0      |      |        |      |        |      |
| Volatile Compound         | Result    | Flag     | Result   | Flag     | Result   | Flag | Result | Flag | Result | Flag |
| Chloromethane             | 10        | UJ       | 10       | UJ       | 10       | UJ   | 11     | UJ   | 10     | UJ   |
| Bromomethane              | 10        | U        | 10       | U        | 10       | U    | 11     | U    | 10     | U    |
| Vinyl Chloride            | 10        | U        | 10       | U        | 10       | U    | 11     | U    | 10     | U    |
| Chloroethane              | 10        | UJ       | 10       | UJ       | 10       | UJ   | 11     | UJ   | 10     | UJ   |
| Methylene Chloride        | 10        | U        | 10       | U        | 10       | U    | 11     | U    | 10     | U    |
| Acetone                   | 10        | U        | 10       | U        | 10       | U    | 11     | U    | 10     | U    |
| Carbon Disulfide          | 10        | U        | 10       | U        | 10       | U    | 11     | U    | 10     | U    |
| 1,1-Dichloroethene        | 10        | U        | 10       | U        | 10       | U    | 11     | U    | 10     | U    |
| 1,1-Dichloroethane        | 10        | U        | 10       | U        | 10       | U    | 11     | U    | 10     | U    |
| Total 1,2-Dichloroethene  | 10        | U        | 10       | U        | 10       | U    | 11     | U    | 10     | U    |
| Chloroform                | 10        | U        | 10       | U        | 10       | U    | 11     | U    | 10     | U    |
| 1,2-Dichloroethane        | 10        | U        | 10       | U        | 10       | U    | 11     | U    | 10     | U    |
| 2-Butanone                | 10        | U        | 10       | U        | 10       | U    | 11     | U    | 10     | U    |
| 1,1,1-Trichloroethane     | 10        | U        | 10       | U        | 10       | U    | 11     | U    | 10     | U    |
| Carbon Tetrachloride      | 10        | U        | 10       | U        | 10       | U    | 11     | U    | 10     | U    |
| Bromodichloromethane      | 10        | U        | 10       | U        | 10       | U    | 11     | U    | 10     | U    |
| 1,2-Dichloropropane       | 10        | U        | 10       | U        | 10       | U    | 11     | U    | 10     | U    |
| Cis-1,3-Dichloropropene   | 10        | U        | 10       | U        | 10       | U    | 11     | U    | 10     | U    |
| Trichloroethene           | 10        | U        | 10       | U        | 10       | U    | 11     | U    | 10     | U    |
| Dibromochloromethane      | 10        | U        | 10       | U        | 10       | U    | 11     | U    | 10     | U    |
| 1,1,2-Trichloroethane     | 10        | U        | 10       | U        | 10       | U    | 11     | U    | 10     | U    |
| Benzene                   | 10        | U        | 10       | U        | 10       | U    | 11     | U    | 10     | U    |
| Trans-1,3-Dichloropropene | 10        | U        | 10       | U        | 10       | U    | 11     | U    | 10     | U    |
| Bromoform                 | 10        | UJ       | 10       | UJ       | 10       | UJ   | 11     | UJ   | 10     | UJ   |
| 4-Methyl-2-pentanone      | 10        | U        | 10       | U        | 10       | U    | 11     | U    | 10     | U    |
| 2-Hexanone                | 10        | U        | 10       | U        | 10       | U    | 11     | U    | 10     | U    |
| Tetrachloroethene         | 10        | UJ       | 10       | UJ       | 10       | UJ   | 11     | UJ   | 10     | UJ   |
| 1,1,2,2-Tetrachloroethane | 10        | U        | 10       | U        | 10       | U    | 11     | U    | 10     | U    |
| Toluene                   | 10        | U        | 10       | U        | 10       | U    | 11     | U    | 10     | U    |
| Chlorobenzene             | 10        | U        | 10       | U        | 10       | U    | 11     | U    | 10     | U    |
| Ethylbenzene              | 10        | U        | 10       | U        | 10       | U    | 11     | U    | 10     | U    |
| Styrene                   | 10        | U        | 10       | U        | 10       | U    | 11     | U    | 10     | U    |
| Xylene (total)            | 10        | U        | 10       | U        | 10       | U    | 11     | U    | 10     | U    |

## Analytical Results (Qualified Data)

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Case #: 26593                      SDG: ECMM8  
 Site:                                HIMCO DUMP, ELKHART  
 Lab. :                                IEANJ  
 Reviewer:                          S. Tobin  
 Date:                                12/01/98

| Sample Number:            | ECMN9    | ECMP0    | ECMPOMS  | ECMPOMSD | ECMP1    |      |        |      |        |      |
|---------------------------|----------|----------|----------|----------|----------|------|--------|------|--------|------|
| Sampling Location:        | SB13-6   | SB12-0.5 | SB12-0.5 | SB12-0.5 | SB 12-2  |      |        |      |        |      |
| Matrix:                   | Soil     | Soil     | Soil     | Soil     | Soil     |      |        |      |        |      |
| Units:                    | ug/kg    | ug/kg    | ug/kg    | ug/kg    | ug/kg    |      |        |      |        |      |
| Date Sampled:             | 10/20/98 | 10/20/98 | 10/20/98 | 10/20/98 | 10/20/98 |      |        |      |        |      |
| %Moisture:                | 9        | 5        | 6        | 4        | 4        |      |        |      |        |      |
| PH:                       |          |          |          |          |          |      |        |      |        |      |
| Dilution Factor:          | 1.0      | 1.0      | 1.0      | 1.0      | 1.0      |      |        |      |        |      |
| Volatile Compound         | Result   | Flag     | Result   | Flag     | Result   | Flag | Result | Flag | Result | Flag |
| Chloromethane             | 11       | UJ       | 10       | UJ       | 11       | UJ   | 10     | UJ   | 10     | UJ   |
| Bromomethane              | 11       | U        | 10       | U        | 11       | U    | 10     | U    | 10     | U    |
| Vinyl Chloride            | 11       | U        | 10       | U        | 11       | U    | 10     | U    | 10     | U    |
| Chloroethane              | 11       | UJ       | 10       | UJ       | 11       | UJ   | 10     | UJ   | 10     | UJ   |
| Methylene Chloride        | 11       | U        | 10       | U        | 11       | U    | 10     | U    | 10     | U    |
| Acetone                   | 11       | U        | 10       | U        | 11       | U    | 10     | U    | 10     | U    |
| Carbon Disulfide          | 11       | U        | 10       | U        | 11       | U    | 10     | U    | 10     | U    |
| 1,1-Dichloroethene        | 11       | U        | 10       | U        | 47       |      | 55     |      | 10     | U    |
| 1,1-Dichloroethane        | 11       | U        | 10       | U        | 11       | U    | 10     | U    | 10     | U    |
| Total 1,2-Dichloroethene  | 11       | U        | 10       | U        | 11       | U    | 10     | U    | 10     | U    |
| Chloroform                | 11       | U        | 10       | U        | 11       | U    | 10     | U    | 10     | U    |
| 1,2-Dichloroethane        | 11       | U        | 10       | U        | 11       | U    | 10     | U    | 10     | U    |
| 2-Butanone                | 11       | U        | 10       | U        | 11       | U    | 10     | U    | 10     | U    |
| 1,1,1-Trichloroethane     | 11       | U        | 10       | U        | 11       | U    | 10     | U    | 10     | U    |
| Carbon Tetrachloride      | 11       | U        | 10       | U        | 11       | U    | 10     | U    | 10     | U    |
| Bromodichloromethane      | 11       | U        | 10       | U        | 11       | U    | 10     | U    | 10     | U    |
| 1,2-Dichloropropane       | 11       | U        | 10       | U        | 11       | U    | 10     | U    | 10     | U    |
| Cis-1,3-Dichloropropene   | 11       | U        | 10       | U        | 11       | U    | 10     | U    | 10     | U    |
| Trichloroethene           | 11       | U        | 10       | U        | 56       |      | 60     |      | 10     | U    |
| Dibromochloromethane      | 11       | U        | 10       | U        | 11       | U    | 10     | U    | 10     | U    |
| 1,1,2-Trichloroethane     | 11       | U        | 10       | U        | 11       | U    | 10     | U    | 10     | U    |
| Benzene                   | 11       | U        | 10       | U        | 54       |      | 58     |      | 10     | U    |
| Trans-1,3-Dichloropropene | 11       | U        | 10       | U        | 11       | U    | 10     | U    | 10     | U    |
| Bromoform                 | 11       | U        | 10       | UJ       | 11       | UJ   | 10     | UJ   | 10     | UJ   |
| 4-Methyl-2-pentanone      | 11       | U        | 10       | U        | 11       | U    | 10     | U    | 10     | U    |
| 2-Hexanone                | 11       | U        | 10       | U        | 11       | U    | 10     | U    | 10     | U    |
| Tetrachloroethene         | 11       | UJ       | 10       | UJ       | 11       | UJ   | 10     | UJ   | 10     | UJ   |
| 1,1,2,2-Tetrachloroethane | 11       | U        | 10       | U        | 11       | U    | 10     | U    | 10     | U    |
| Toluene                   | 11       | U        | 10       | U        | 54       |      | 57     |      | 10     | U    |
| Chlorobenzene             | 11       | U        | 10       | U        | 52       |      | 57     |      | 10     | U    |
| Ethylbenzene              | 11       | U        | 10       | U        | 11       | U    | 10     | U    | 10     | U    |
| Styrene                   | 11       | U        | 10       | U        | 11       | U    | 10     | U    | 10     | U    |
| Xylene (total)            | 11       | U        | 10       | U        | 11       | U    | 10     | U    | 10     | U    |



## Analytical Results (Qualified Data)

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Case #: 26593  
 Site: HIMCO DUMP, ELKHART  
 Lab.: IEANJ  
 Reviewer: S. Tobin  
 Date: 12/01/98

| Sample Number:             | ECMM8     | ECMM9    | ECMNS    | ECMN5DL  | ECMN6    |      |        |      |        |      |
|----------------------------|-----------|----------|----------|----------|----------|------|--------|------|--------|------|
| Sampling Location:         | SB 08-0.5 | SB 08-2  | SB14-2   | SB14-2   | SB 14-6  |      |        |      |        |      |
| Matrix:                    | Soil      | Soil     | Soil     | Soil     | Soil     |      |        |      |        |      |
| Units:                     | ug/kg     | ug/kg    | ug/kg    | ug/kg    | ug/kg    |      |        |      |        |      |
| Date Sampled:              | 10/20/98  | 10/20/98 | 10/20/98 | 10/20/98 | 10/20/98 |      |        |      |        |      |
| %Moisture:                 | 5         | 2        | 3        | 3        | 11       |      |        |      |        |      |
| PH:                        | 6.6       | 7.5      | 6.8      | 6.8      | 6.8      |      |        |      |        |      |
| Dilution Factor:           | 1.0       | 1.0      | 1.0      | 2.0      | 1.0      |      |        |      |        |      |
| Semivolatile Compound      | Result    | Flag     | Result   | Flag     | Result   | Flag | Result | Flag | Result | Flag |
| Phenol                     | 350       | U        | 340      | U        | 340      | U    | 680    | U    | 370    | U    |
| bis(2-Chloroethyl) ether   | 350       | U        | 340      | U        | 340      | U    | 680    | U    | 370    | U    |
| 2-Chlorophenol             | 350       | U        | 340      | U        | 340      | U    | 680    | U    | 370    | U    |
| 1,3-Dichlorobenzene        | 350       | U        | 340      | U        | 340      | U    | 680    | U    | 370    | U    |
| 1,4-Dichlorobenzene        | 350       | U        | 340      | U        | 340      | U    | 680    | U    | 370    | U    |
| 1,2-Dichlorobenzene        | 350       | U        | 340      | U        | 340      | U    | 680    | U    | 370    | U    |
| 2-Methylphenol             | 350       | U        | 340      | U        | 340      | U    | 680    | U    | 370    | U    |
| 2,2'-oxybis(1-chloropropan | 350       | U        | 340      | U        | 340      | U    | 680    | U    | 370    | U    |
| 4-Methylphenol             | 350       | U        | 340      | U        | 340      | U    | 680    | U    | 370    | U    |
| N-Nitroso-di-n-propylamine | 350       | U        | 340      | U        | 340      | U    | 680    | U    | 370    | U    |
| Hexachloroethane           | 350       | U        | 340      | U        | 340      | U    | 680    | U    | 370    | U    |
| Nitrobenzene               | 350       | U        | 340      | U        | 340      | U    | 680    | U    | 370    | U    |
| Isophorone                 | 350       | U        | 340      | U        | 340      | U    | 680    | U    | 370    | U    |
| 2-Nitrophenol              | 350       | U        | 340      | U        | 340      | U    | 680    | U    | 370    | U    |
| 2,4-Dimethylphenol         | 350       | U        | 340      | U        | 340      | U    | 680    | U    | 370    | U    |
| bis(2-Chloroethoxy)methane | 350       | U        | 340      | U        | 340      | U    | 680    | U    | 370    | U    |
| 2,4-Dichlorophenol         | 350       | U        | 340      | U        | 340      | U    | 680    | U    | 370    | U    |
| 1,2,4-Trichlorobenzene     | 350       | U        | 340      | U        | 340      | U    | 680    | U    | 370    | U    |
| Naphthalene                | 350       | U        | 340      | U        | 340      | U    | 680    | U    | 120    | J    |
| 4-Chloroaniline            | 350       | U        | 340      | U        | 340      | U    | 680    | UJ   | 370    | U    |
| Hexachlorobutadiene        | 350       | U        | 340      | U        | 340      | U    | 680    | UJ   | 370    | U    |
| 4-Chloro-3-methylphenol    | 350       | U        | 340      | U        | 340      | U    | 680    | U    | 370    | U    |
| 2-Methylnaphthalene        | 350       | U        | 340      | U        | 340      | U    | 680    | U    | 370    | U    |
| Hexachlorocyclopentadiene  | 350       | U        | 340      | U        | 340      | U    | 680    | U    | 370    | U    |
| 2,4,6-Trichlorophenol      | 350       | U        | 340      | U        | 340      | U    | 680    | U    | 370    | U    |
| 2,4,5-Trichlorophenol      | 870       | U        | 850      | U        | 860      | U    | 1700   | U    | 930    | U    |
| 2-Chloronaphthalene        | 350       | U        | 340      | U        | 340      | U    | 680    | U    | 370    | U    |
| 2-Nitroaniline             | 870       | U        | 850      | U        | 860      | U    | 1700   | U    | 930    | U    |
| Dimethylphthalate          | 350       | U        | 340      | U        | 340      | U    | 680    | U    | 370    | U    |
| Acenaphthylene             | 350       | U        | 340      | U        | 340      | U    | 680    | U    | 370    | U    |
| 2,6-Dinitrotoluene         | 350       | U        | 340      | U        | 340      | U    | 680    | U    | 370    | U    |
| 3-Nitroaniline             | 870       | U        | 850      | U        | 860      | U    | 1700   | U    | 930    | U    |

Analytical Results (Qualified Data)

Case #: 26593                      SDG: ECMM8  
 Site:                                HIMCO DUMP, ELKHART  
 Lab. :                                IEANJ  
 Reviewer:                          S. Tobin  
 Date:                                12/01/98

| Sample Number:             | ECMM8     | ECMM9    | ECMN5    | ECMN5DL  | ECMN6    |      |        |      |        |      |
|----------------------------|-----------|----------|----------|----------|----------|------|--------|------|--------|------|
| Sampling Location:         | SB 08-0.5 | SB 08-2  | SB14-2   | SB14-2   | SB 14-6  |      |        |      |        |      |
| Matrix:                    | Soil      | Soil     | Soil     | Soil     | Soil     |      |        |      |        |      |
| Units:                     | ug/kg     | ug/kg    | ug/kg    | ug/kg    | ug/kg    |      |        |      |        |      |
| Date Sampled:              | 10/20/98  | 10/20/98 | 10/20/98 | 10/20/98 | 10/20/98 |      |        |      |        |      |
| %Moisture:                 | 5         | 2        | 3        | 3        | 11       |      |        |      |        |      |
| PH:                        | 6.6       | 7.5      | 6.8      | 6.8      | 6.8      |      |        |      |        |      |
| Dilution Factor:           | 1.0       | 1.0      | 1.0      | 2.0      | 1.0      |      |        |      |        |      |
| Semivolatile Compound      | Result    | Flag     | Result   | Flag     | Result   | Flag | Result | Flag | Result | Flag |
| Acenaphthene               | 350       | U        | 340      | U        | 340      | U    | 680    | U    | 370    | U    |
| 2,4-Dinitrophenol          | 870       | U        | 850      | U        | 860      | U    | 1700   | U    | 930    | U    |
| 4-Nitrophenol              | 870       | U        | 850      | U        | 860      | U    | 1700   | U    | 930    | U    |
| Dibenzofuran               | 350       | U        | 340      | U        | 340      | U    | 680    | U    | 370    | U    |
| 2,4-Dinitrotoluene         | 350       | U        | 340      | U        | 340      | U    | 680    | U    | 370    | U    |
| Diethylphthalate           | 350       | U        | 340      | U        | 340      | U    | 680    | U    | 370    | U    |
| 4-Chlorophenyl-phenylether | 350       | U        | 340      | U        | 340      | U    | 680    | U    | 370    | U    |
| Fluorene                   | 350       | U        | 340      | U        | 340      | U    | 680    | U    | 370    | U    |
| 4-Nitroaniline             | 870       | U        | 850      | U        | 860      | U    | 1700   | U    | 930    | U    |
| 4,6-Dinitro-2-methylphenol | 870       | U        | 850      | U        | 860      | U    | 1700   | U    | 930    | U    |
| N-Nitrosodiphenylamine     | 350       | U        | 340      | U        | 340      | U    | 680    | U    | 370    | U    |
| 4-Bromophenyl-phenylether  | 350       | U        | 340      | U        | 340      | U    | 680    | U    | 370    | U    |
| Hexachlorobenzene          | 350       | U        | 340      | U        | 340      | U    | 680    | U    | 370    | U    |
| Pentachlorophenol          | 870       | U        | 850      | U        | 860      | U    | 1700   | U    | 930    | U    |
| Phenanthrene               | 350       | U        | 340      | U        | 340      | U    | 680    | U    | 370    | U    |
| Anthracene                 | 350       | U        | 340      | U        | 340      | U    | 680    | U    | 370    | U    |
| Carbazole                  | 350       | U        | 340      | U        | 340      | U    | 680    | U    | 370    | U    |
| Di-n-butylphthalate        | 350       | U        | 340      | U        | 340      | U    | 680    | U    | 370    | U    |
| Fluoranthene               | 350       | U        | 340      | U        | 340      | U    | 680    | U    | 44     | J    |
| Pyrene                     | 350       | U        | 340      | U        | 40       | J    | 680    | U    | 53     | J    |
| Butylbenzylphthalate       | 350       | U        | 340      | U        | 340      | U    | 680    | U    | 370    | U    |
| 3,3'-Dichlorobenzidine     | 350       | U        | 340      | U        | 340      | U    | 680    | U    | 370    | U    |
| Benzo(a)anthracene         | 350       | U        | 340      | U        | 340      | U    | 680    | U    | 370    | U    |
| Chrysene                   | 350       | U        | 340      | U        | 340      | U    | 680    | U    | 370    | U    |
| bis(2-Ethylhexyl)phthalate | 360       |          | 1500     |          | 3700     |      | 2900   |      | 20000  |      |
| Di-n-octylphthalate        | 350       | U        | 340      | U        | 340      | U    | 680    | U    | 370    | U    |
| Benzo(b)fluoranthene       | 350       | U        | 340      | U        | 340      | U    | 680    | U    | 52     | J    |
| Benzo(k)fluoranthene       | 350       | U        | 340      | U        | 340      | U    | 680    | U    | 370    | U    |
| Benzo(a)pyrene             | 350       | U        | 340      | U        | 340      | U    | 680    | U    | 370    | U    |
| Indeno(1,2,3-cd)pyrene     | 350       | U        | 340      | U        | 340      | U    | 680    | U    | 370    | U    |
| Dibenz(a,h)anthracene      | 350       | U        | 340      | U        | 340      | U    | 680    | U    | 370    | U    |
| Benzo(g,h,i)perylene       | 350       | U        | 340      | U        | 340      | U    | 680    | U    | 38     | J    |

Analytical Results (Qualified Data)

Case #: 26593                   SDG: ECMM8  
 Site:                           HIMCO DUMP, ELKHART  
 Lab. :                           IEANJ  
 Reviewer:                   S. Tobin  
 Date:                           12/01/98

| Sample Number:             | ECMN6DL  | ECMN8    | ECMN9    | ECMP0    | ECMP0MS  |      |        |      |        |      |
|----------------------------|----------|----------|----------|----------|----------|------|--------|------|--------|------|
| Sampling Location:         | SB 14-6  | SB13-2   | SB13-6   | SB12-0.5 | SB12-0.5 |      |        |      |        |      |
| Matrix:                    | Soil     | Soil     | Soil     | Soil     | Soil     |      |        |      |        |      |
| Units:                     | ug/kg    | ug/kg    | ug/kg    | ug/kg    | ug/kg    |      |        |      |        |      |
| Date Sampled:              | 10/20/98 | 10/20/98 | 10/20/98 | 10/20/98 | 10/20/98 |      |        |      |        |      |
| %Moisture:                 | 11       | 5        | 9        | 5        | 6        |      |        |      |        |      |
| PH:                        | 6.8      | 9.6      | 7.7      | 6.3      | 6.1      |      |        |      |        |      |
| Dilution Factor:           | 20.0     | 1.0      | 1.0      | 1.0      | 1.0      |      |        |      |        |      |
| Semivolatile Compound      | Result   | Flag     | Result   | Flag     | Result   | Flag | Result | Flag | Result | Flag |
| Phenol                     | 7400     | U        | 350      | U        | 360      | U    | 350    | U    | 2100   |      |
| bis(2-Chloroethyl) ether   | 7400     | U        | 350      | U        | 360      | U    | 350    | U    | 350    | U    |
| 2-Chlorophenol             | 7400     | U        | 350      | U        | 360      | U    | 350    | U    | 2100   |      |
| 1,3-Dichlorobenzene        | 7400     | U        | 350      | U        | 360      | U    | 350    | U    | 350    | U    |
| 1,4-Dichlorobenzene        | 7400     | U        | 350      | U        | 360      | U    | 350    | U    | 1100   |      |
| 1,2-Dichlorobenzene        | 7400     | U        | 350      | U        | 360      | U    | 350    | U    | 350    | U    |
| 2-Methylphenol             | 7400     | U        | 350      | U        | 360      | U    | 350    | U    | 350    | U    |
| 2,2'-oxybis(1-chloropropan | 7400     | U        | 350      | U        | 360      | U    | 350    | U    | 350    | U    |
| 4-Methylphenol             | 7400     | U        | 350      | U        | 360      | U    | 350    | U    | 350    | U    |
| N-Nitroso-di-n-propylamine | 7400     | U        | 350      | U        | 360      | U    | 350    | U    | 1200   |      |
| Hexachloroethane           | 7400     | U        | 350      | U        | 360      | U    | 350    | U    | 350    | U    |
| Nitrobenzene               | 7400     | U        | 350      | U        | 360      | U    | 350    | U    | 350    | U    |
| Isophorone                 | 7400     | U        | 350      | U        | 360      | U    | 350    | U    | 350    | U    |
| 2-Nitrophenol              | 7400     | U        | 350      | U        | 360      | U    | 350    | U    | 350    | U    |
| 2,4-Dimethylphenol         | 7400     | U        | 350      | U        | 360      | U    | 350    | U    | 350    | U    |
| bis(2-Chloroethoxy)methane | 7400     | U        | 350      | U        | 360      | U    | 350    | U    | 350    | U    |
| 2,4-Dichlorophenol         | 7400     | U        | 350      | U        | 360      | U    | 350    | U    | 350    | U    |
| 1,2,4-Trichlorobenzene     | 7400     | U        | 350      | U        | 360      | U    | 350    | U    | 1200   |      |
| Naphthalene                | 7400     | U        | 350      | U        | 360      | U    | 350    | U    | 350    | U    |
| 4-Chloroaniline            | 7400     | UJ       | 350      | U        | 360      | U    | 350    | U    | 350    | U    |
| Hexachlorobutadiene        | 7400     | UJ       | 350      | U        | 360      | U    | 350    | U    | 350    | U    |
| 4-Chloro-3-methylphenol    | 7400     | U        | 350      | U        | 360      | U    | 350    | U    | 2200   |      |
| 2-Methylnaphthalene        | 7400     | U        | 350      | U        | 360      | U    | 350    | U    | 350    | U    |
| Hexachlorocyclopentadiene  | 7400     | U        | 350      | U        | 360      | U    | 350    | U    | 350    | U    |
| 2,4,6-Trichlorophenol      | 7400     | U        | 350      | U        | 360      | U    | 350    | U    | 350    | U    |
| 2,4,5-Trichlorophenol      | 19000    | U        | 870      | U        | 910      | U    | 870    | U    | 880    | U    |
| 2-Chloronaphthalene        | 7400     | U        | 350      | U        | 360      | U    | 350    | U    | 350    | U    |
| 2-Nitroaniline             | 19000    | U        | 870      | U        | 910      | U    | 870    | U    | 880    | U    |
| Dimethylphthalate          | 7400     | U        | 350      | U        | 360      | U    | 350    | U    | 350    | U    |
| Acenaphthylene             | 7400     | U        | 350      | U        | 360      | U    | 350    | U    | 350    | U    |
| 2,6-Dinitrotoluene         | 7400     | U        | 350      | U        | 360      | U    | 350    | U    | 350    | U    |
| 3-Nitroaniline             | 19000    | U        | 870      | U        | 910      | U    | 870    | U    | 880    | U    |

## Analytical Results (Qualified Data)

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Case #: 26593                      SDG: ECMM8  
 Site:                                HIMCO DUMP, ELKHART  
 Lab. :                                IEANJ  
 Reviewer:                         S. Tobin  
 Date:                                12/01/98

| Sample Number:             | ECMN6DL  | ECMN8    | ECMN9    | ECMP0    | ECMP0MS  |      |        |      |        |      |
|----------------------------|----------|----------|----------|----------|----------|------|--------|------|--------|------|
| Sampling Location:         | SB 14-6  | SB13-2   | SB13-6   | SB12-0.5 | SB12-0.5 |      |        |      |        |      |
| Matrix:                    | Soil     | Soil     | Soil     | Soil     | Soil     |      |        |      |        |      |
| Units:                     | ug/kg    | ug/kg    | ug/kg    | ug/kg    | ug/kg    |      |        |      |        |      |
| Date Sampled:              | 10/20/98 | 10/20/98 | 10/20/98 | 10/20/98 | 10/20/98 |      |        |      |        |      |
| %Moisture:                 | 11       | 5        | 9        | 5        | 6        |      |        |      |        |      |
| PH:                        | 6.8      | 9.6      | 7.7      | 6.3      | 6.1      |      |        |      |        |      |
| Dilution Factor:           | 20.0     | 1.0      | 1.0      | 1.0      | 1.0      |      |        |      |        |      |
| Semivolatile Compound      | Result   | Flag     | Result   | Flag     | Result   | Flag | Result | Flag | Result | Flag |
| Acenaphthene               | 7400     | U        | 350      | U        | 360      | U    | 350    | U    | 1300   |      |
| 2,4-Dinitrophenol          | 19000    | U        | 870      | U        | 910      | U    | 870    | U    | 880    | U    |
| 4-Nitrophenol              | 19000    | U        | 870      | U        | 910      | U    | 870    | U    | 2100   |      |
| Dibenzofuran               | 7400     | U        | 350      | U        | 360      | U    | 350    | U    | 350    | U    |
| 2,4-Dinitrotoluene         | 7400     | U        | 350      | U        | 360      | U    | 350    | U    | 1300   |      |
| Diethylphthalate           | 7400     | U        | 350      | U        | 360      | U    | 350    | U    | 350    | U    |
| 4-Chlorophenyl-phenylether | 7400     | U        | 350      | U        | 360      | U    | 350    | U    | 350    | U    |
| Fluorene                   | 7400     | U        | 350      | U        | 360      | U    | 350    | U    | 350    | U    |
| 4-Nitroaniline             | 19000    | U        | 870      | U        | 910      | U    | 870    | U    | 880    | U    |
| 4,6-Dinitro-2-methylphenol | 19000    | U        | 870      | U        | 910      | U    | 870    | U    | 880    | U    |
| N-Nitrosodiphenylamine     | 7400     | U        | 350      | U        | 360      | U    | 350    | U    | 350    | U    |
| 4-Bromophenyl-phenylether  | 7400     | U        | 350      | U        | 360      | U    | 350    | U    | 350    | U    |
| Hexachlorobenzene          | 7400     | U        | 350      | U        | 360      | U    | 350    | U    | 350    | U    |
| Pentachlorophenol          | 19000    | U        | 870      | U        | 910      | U    | 870    | U    | 2000   |      |
| Phenanthrene               | 7400     | U        | 350      | U        | 360      | U    | 350    | U    | 350    | U    |
| Anthracene                 | 7400     | U        | 350      | U        | 360      | U    | 350    | U    | 350    | U    |
| Carbazole                  | 7400     | U        | 350      | U        | 360      | U    | 350    | U    | 350    | J    |
| Di-n-butylphthalate        | 7400     | U        | 350      | U        | 360      | U    | 350    | U    | 350    | U    |
| Fluoranthene               | 7400     | U        | 350      | U        | 43       | J    | 350    | U    | 350    | U    |
| Pyrene                     | 7400     | U        | 350      | U        | 44       | J    | 350    | U    | 1600   |      |
| Butylbenzylphthalate       | 7400     | U        | 350      | U        | 360      | U    | 350    | U    | 350    | U    |
| 3,3'-Dichlorobenzidine     | 7400     | U        | 350      | U        | 360      | U    | 350    | U    | 350    | U    |
| Benzo(a)anthracene         | 7400     | U        | 350      | U        | 360      | U    | 350    | U    | 350    | U    |
| Chrysene                   | 7400     | U        | 350      | U        | 360      | U    | 350    | U    | 350    | U    |
| bis(2-Ethylhexyl)phthalate | 30000    |          | 150      | J        | 960      |      | 440    |      | 530    |      |
| Di-n-octylphthalate        | 7400     | U        | 350      | U        | 360      | U    | 350    | U    | 350    | U    |
| Benzo(b)fluoranthene       | 7400     | U        | 350      | U        | 38       | J    | 350    | U    | 350    | U    |
| Benzo(k)fluoranthene       | 7400     | U        | 350      | U        | 360      | U    | 350    | U    | 350    | U    |
| Benzo(a)pyrene             | 7400     | U        | 350      | U        | 360      | U    | 350    | U    | 350    | U    |
| Indeno(1,2,3-cd)pyrene     | 7400     | U        | 350      | U        | 360      | U    | 350    | U    | 350    | U    |
| Dibenz(a,h)anthracene      | 7400     | U        | 350      | U        | 360      | U    | 350    | U    | 350    | U    |
| Benzo(g,h,i)perylene       | 7400     | U        | 350      | U        | 360      | U    | 350    | U    | 350    | U    |

Analytical Results (Qualified Data)

Case #: 26593                      SDG: ECMM8  
 Site:                                HIMCO DUMP, ELKHART  
 Lab. :                                IEANJ  
 Reviewer:                          S. Tobin  
 Date:                                12/01/98

| Sample Number:             | ECMP0MSD | ECMP1    | ECMP2    |      |        |      |        |      |        |      |
|----------------------------|----------|----------|----------|------|--------|------|--------|------|--------|------|
| Sampling Location:         | SB12-0.5 | SB 12-2  | SB 12-6  |      |        |      |        |      |        |      |
| Matrix:                    | Soil     | Soil     | Soil     |      |        |      |        |      |        |      |
| Units:                     | ug/kg    | ug/kg    | ug/kg    |      |        |      |        |      |        |      |
| Date Sampled:              | 10/20/98 | 10/20/98 | 10/20/98 |      |        |      |        |      |        |      |
| %Moisture:                 | 4        | 4        | 5        |      |        |      |        |      |        |      |
| PH:                        | 5.8      | 6.5      | 6.9      |      |        |      |        |      |        |      |
| Dilution Factor:           | 1.0      | 1.0      | 2.0      |      |        |      |        |      |        |      |
| Semivolatile Compound      | Result   | Flag     | Result   | Flag | Result | Flag | Result | Flag | Result | Flag |
| Phenol                     | 2000     |          | 340      | U    | 690    | U    |        |      |        |      |
| bis(2-Chloroethyl) ether   | 340      | U        | 340      | U    | 690    | U    |        |      |        |      |
| 2-Chlorophenol             | 2000     |          | 340      | U    | 690    | U    |        |      |        |      |
| 1,3-Dichlorobenzene        | 340      | U        | 340      | U    | 690    | U    |        |      |        |      |
| 1,4-Dichlorobenzene        | 1100     |          | 340      | U    | 690    | U    |        |      |        |      |
| 1,2-Dichlorobenzene        | 340      | U        | 340      | U    | 690    | U    |        |      |        |      |
| 2-Methylphenol             | 340      | U        | 340      | U    | 690    | U    |        |      |        |      |
| 2,2'-oxybis(1-chloropropan | 340      | U        | 340      | U    | 690    | U    |        |      |        |      |
| 4-Methylphenol             | 340      | U        | 340      | U    | 690    | U    |        |      |        |      |
| N-Nitroso-di-n-propylamine | 1100     |          | 340      | U    | 690    | U    |        |      |        |      |
| Hexachloroethane           | 340      | U        | 340      | U    | 690    | U    |        |      |        |      |
| Nitrobenzene               | 340      | U        | 340      | U    | 690    | U    |        |      |        |      |
| Isophorone                 | 340      | U        | 340      | U    | 690    | U    |        |      |        |      |
| 2-Nitrophenol              | 340      | U        | 340      | U    | 690    | U    |        |      |        |      |
| 2,4-Dimethylphenol         | 340      | U        | 340      | U    | 690    | U    |        |      |        |      |
| bis(2-Chloroethoxy)methane | 340      | U        | 340      | U    | 690    | U    |        |      |        |      |
| 2,4-Dichlorophenol         | 340      | U        | 340      | U    | 690    | U    |        |      |        |      |
| 1,2,4-Trichlorobenzene     | 1200     |          | 340      | U    | 690    | U    |        |      |        |      |
| Naphthalene                | 340      | U        | 340      | U    | 690    | U    |        |      |        |      |
| 4-Chloroaniline            | 340      | U        | 340      | UJ   | 690    | UJ   |        |      |        |      |
| Hexachlorobutadiene        | 340      | U        | 340      | UJ   | 690    | UJ   |        |      |        |      |
| 4-Chloro-3-methylphenol    | 2100     |          | 340      | U    | 690    | U    |        |      |        |      |
| 2-Methylnaphthalene        | 340      | U        | 340      | U    | 690    | U    |        |      |        |      |
| Hexachlorocyclopentadiene  | 340      | U        | 340      | U    | 690    | U    |        |      |        |      |
| 2,4,6-Trichlorophenol      | 340      | U        | 340      | U    | 690    | U    |        |      |        |      |
| 2,4,5-Trichlorophenol      | 860      | U        | 860      | U    | 1700   | U    |        |      |        |      |
| 2-Chloronaphthalene        | 340      | U        | 340      | U    | 690    | U    |        |      |        |      |
| 2-Nitroaniline             | 860      | U        | 860      | U    | 1700   | U    |        |      |        |      |
| Dimethylphthalate          | 340      | U        | 340      | U    | 690    | U    |        |      |        |      |
| Acenaphthylene             | 340      | U        | 340      | U    | 690    | U    |        |      |        |      |
| 2,6-Dinitrotoluene         | 340      | U        | 340      | U    | 690    | U    |        |      |        |      |
| 3-Nitroaniline             | 860      | U        | 860      | U    | 1700   | U    |        |      |        |      |

Analytical Results (Qualified Data)

Case #: 26593                      SDG: ECMM8  
 Site:                                HIMCO DUMP, ELKHART  
 Lab. :                                IEANJ  
 Reviewer:                         S. Tobin  
 Date:                                12/01/98

| Sample Number:             | ECMP0MSD | ECMP1    | ECMP2    |      |        |      |        |      |        |      |
|----------------------------|----------|----------|----------|------|--------|------|--------|------|--------|------|
| Sampling Location:         | SB12-0.5 | SB 12-2  | SB 12-6  |      |        |      |        |      |        |      |
| Matrix:                    | Soil     | Soil     | Soil     |      |        |      |        |      |        |      |
| Units:                     | ug/kg    | ug/kg    | ug/kg    |      |        |      |        |      |        |      |
| Date Sampled:              | 10/20/98 | 10/20/98 | 10/20/98 |      |        |      |        |      |        |      |
| %Moisture:                 | 4        | 4        | 5        |      |        |      |        |      |        |      |
| PH:                        | 5.8      | 6.5      | 6.9      |      |        |      |        |      |        |      |
| Dilution Factor:           | 1.0      | 1.0      | 2.0      |      |        |      |        |      |        |      |
| Semivolatile Compound      | Result   | Flag     | Result   | Flag | Result | Flag | Result | Flag | Result | Flag |
| Acenaphthene               | 1300     |          | 340      | U    | 690    | U    |        |      |        |      |
| 2,4-Dinitrophenol          | 860      | U        | 860      | U    | 1700   | U    |        |      |        |      |
| 4-Nitrophenol              | 2100     |          | 860      | U    | 1700   | U    |        |      |        |      |
| Dibenzofuran               | 340      | U        | 340      | U    | 690    | U    |        |      |        |      |
| 2,4-Dinitrotoluene         | 1300     |          | 340      | U    | 690    | U    |        |      |        |      |
| Diethylphthalate           | 340      | U        | 340      | U    | 690    | U    |        |      |        |      |
| 4-Chlorophenyl-phenylether | 340      | U        | 340      | U    | 690    | U    |        |      |        |      |
| Fluorene                   | 340      | U        | 340      | U    | 690    | U    |        |      |        |      |
| 4-Nitroaniline             | 860      | U        | 860      | U    | 1700   | U    |        |      |        |      |
| 4,6-Dinitro-2-methylphenol | 860      | U        | 860      | U    | 1700   | U    |        |      |        |      |
| N-Nitrosodiphenylamine     | 340      | U        | 340      | U    | 690    | U    |        |      |        |      |
| 4-Bromophenyl-phenylether  | 340      | U        | 340      | U    | 690    | U    |        |      |        |      |
| Hexachlorobenzene          | 340      | U        | 340      | U    | 690    | U    |        |      |        |      |
| Pentachlorophenol          | 1900     |          | 860      | U    | 1700   | U    |        |      |        |      |
| Phenanthrene               | 340      | U        | 340      | U    | 690    | U    |        |      |        |      |
| Anthracene                 | 340      | U        | 340      | U    | 690    | U    |        |      |        |      |
| Carbazole                  | 340      | U        | 340      | U    | 690    | U    |        |      |        |      |
| Di-n-butylphthalate        | 340      | U        | 340      | U    | 690    | U    |        |      |        |      |
| Fluoranthene               | 340      | U        | 340      | U    | 690    | U    |        |      |        |      |
| Pyrene                     | 1500     |          | 340      | U    | 690    | U    |        |      |        |      |
| Butylbenzylphthalate       | 340      | U        | 340      | U    | 690    | U    |        |      |        |      |
| 3,3'-Dichlorobenzidine     | 340      | U        | 340      | U    | 690    | U    |        |      |        |      |
| Benzo(a)anthracene         | 340      | U        | 340      | U    | 690    | U    |        |      |        |      |
| Chrysene                   | 340      | U        | 340      | U    | 690    | U    |        |      |        |      |
| bis(2-Ethylhexyl)phthalate | 510      |          | 290      | J    | 3400   |      |        |      |        |      |
| Di-n-octylphthalate        | 340      | U        | 340      | U    | 690    | U    |        |      |        |      |
| Benzo(b)fluoranthene       | 340      | U        | 340      | U    | 690    | U    |        |      |        |      |
| Benzo(k)fluoranthene       | 340      | U        | 340      | U    | 690    | U    |        |      |        |      |
| Benzo(a)pyrene             | 340      | U        | 340      | U    | 690    | U    |        |      |        |      |
| Indeno(1,2,3-cd)pyrene     | 340      | U        | 340      | U    | 690    | U    |        |      |        |      |
| Dibenz(a,h)anthracene      | 340      | U        | 340      | U    | 690    | U    |        |      |        |      |
| Benzo(g,h,i)perylene       | 340      | U        | 340      | U    | 690    | U    |        |      |        |      |

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION V

DATE: November 10, 1998

SUBJECT: Review of Data  
Received for Review on November 3, 1998

FROM: Stephen L. Ostrodka, Chief (SRT-4J) /LF.  
Superfund Technical Support Section

TO: Data User: USACE

We have reviewed the data by CADRE for the following case:

SITE NAME: Himco Dump

CASE NUMBER: 26593 SDG NUMBER: MEBOD5

Number and Type of Samples: 3 water, 17 soil *metals*

Sample Numbers: MEBOD5-9; MEBQEO-9; MEBQFO,4; MEBQO4-6

Laboratory: SVL Hrs. for Review: 19

Following are our findings: *+1*

*All data are usable with the qualifications described in the attached narrative.*

*L. Finkelberg  
11-16-98*

CC: Cecilia Lockett  
Region 5 TPO  
Mail Code: SM-5J

Case Number : 26593  
Site Name: Himco Dump

Page 2 of 8  
SDG Number: MEBQD5  
Laboratory: SVL

Below is a summary of the out-of-control audits and the possible effects on the data for this case:

3 water samples (numbered MEBQE8, MEBQE9, and MEBQF0) and 17 soil samples (numbered MEBQD5-9, MEBQ0-7, MEBQF4, and MEBQG4-6) were collected on October 19 and 20, 1998. The lab received the samples on October 20 and 21, 1998. The metals aliquots for the water samples were insufficiently preserved to a pH of 3. All samples were analyzed for metals and cyanide. All samples were analyzed using CLP SOW ILM04.0 analysis procedures.

Mercury analysis was performed using a Cold Vapor AA Technique. Cyanide analysis was performed using the MIDI Distillation procedure. The remaining inorganic analyses were performed using an Inductively Coupled Plasma-Atomic Emission Spectrometric procedure.

Reviewed By: J. Ganz  
Date: November 10, 1998

1. HOLDING TIME:

HOLDING TIME CRITERIA  
-----

Inorganic  
-----

|         | -- Holding Time -- |          | ----- pH ----- |          |
|---------|--------------------|----------|----------------|----------|
|         | Primary            | Expanded | Primary        | Expanded |
| Metals  | 180                | 0        | 2.0            | 0.0      |
| Mercury | 28                 | 0        | 2.0            | 0.0      |
| Cyanide | 14                 | 0        | 12.0           | 0.0      |

DC-280: The following inorganic soil samples were reviewed for holding time violations using criteria developed for water samples.

MEBQD5, MEBQD6, MEBQD7, MEBQD8, MEBQD9, MEBQE0  
MEBQE1, MEBQE2, MEBQE3, MEBQE4  
MEBQE5, MEBQE6, MEBQE7, MEBQF4, MEBQG4, MEBQG5  
MEBQG6

The following results are associated with samples that were improperly preserved.

Hits are qualified "J"; non-detects are qualified "UJ".

MEBQE8

Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium  
Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium  
Manganese, Mercury, Nickel, Potassium, Selenium, Silver, Sodiur  
Thallium, Vanadium, Zinc

MEBQE9

Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium  
Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium  
Manganese, Mercury, Nickel, Potassium, Selenium, Silver, Sodiur  
Thallium, Vanadium, Zinc

MEBQFO

Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium  
Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium  
Manganese, Mercury, Nickel, Potassium, Selenium, Silver, Sodiur  
Thallium, Vanadium, Zinc

2. CALIBRATIONS:

CALIBRATION CRITERIA  
-----

Inorganic

Reviewed By: J. Ganz  
Date: November 10, 1998

-----  
Percent Recovery Limits  
-----

|         | --- Primary --- |        | -- Expanded --- |        |
|---------|-----------------|--------|-----------------|--------|
|         | Low             | High   | Low             | High   |
| Cyanide | 85.00           | 115.00 | 70.00           | 130.00 |
| AA      | 90.00           | 110.00 | 75.00           | 125.00 |
| ICP     | 90.00           | 110.00 | 75.00           | 125.00 |
| Mercury | 80.00           | 120.00 | 65.00           | 135.00 |

No problems were found for this qualification.

3. BLANKS:

LABORATORY BLANKS CRITERIA  
-----

DC-283: The following inorganic samples are associated with a blank analyte with negative concentration whose absolute value is greater than the instrument detection limit (IDL). The sample result is greater than the detection limit but less than 5 times the absolute value of the blank.  
Hits are flagged "J".

Copper  
MEBQE3, MEBQE4, MEBQE5

DC-284: The following inorganic samples are associated with a blank concentration which is greater than the instrument detection limit (IDL). The sample concentration is also greater than the IDL and less than five times the blank concentration.  
Hits are qualified "J" and non-detects are not flagged.

Aluminum  
MEBQE8

Beryllium  
MEBQD5, MEBQD6, MEBQD7, MEBQD8, MEBQD9, MEBQE0  
MEBQE1, MEBQE2, MEBQE3, MEBQE4, MEBQF4, MEBQG4  
MEBQG5, MEBQG6

Cobalt  
MEBQD5, MEBQD6, MEBQD8, MEBQD9, MEBQE0, MEBQE1  
MEBQE2, MEBQE6, MEBQE7, MEBQF0, MEBQF4, MEBQG4  
MEBQG5, MEBQG6

Lead  
MEBQD5, MEBQD7, MEBQE6

Reviewed By: J. Ganz  
Date: November 10, 1998

Case Number : 26593  
Site Name: Himco Dump

Manganese  
MEBQE9

Nickel  
MEBQD5, MEBQD6, MEBQD9, MEBQE0, MEBQE1  
MEBQE2, MEBQE6, MEBQE7, MEBQE8, MEBQG4  
MEBQG5, MEBQG6

Potassium  
MEBQD5, MEBQD6, MEBQD7, MEBQD8, MEBQD9, MEBQE0  
MEBQE2, MEBQE4, MEBQE6, MEBQE8, MEBQE9, MEBQF4  
MEBQG4, MEBQG5, MEBQG6

Sodium  
MEBQD5, MEBQD6, MEBQD7, MEBQD8, MEBQD9, MEBQE0  
MEBQE1, MEBQE2, MEBQE3, MEBQE5, MEBQE6  
MEBQF4, MEBQG4, MEBQG5, MEBQG6

Vanadium  
MEBQD5, MEBQD6, MEBQD8, MEBQE1, MEBQE2, MEBQE3  
MEBQE4, MEBQE5, MEBQE6, MEBQE7, MEBQF4, MEBQG4  
MEBQG5, MEBQG6

Zinc  
MEBQF0

Cyanide  
MEBQD5, MEBQD6, MEBQD8, MEBQD9, MEBQE0, MEBQE1  
MEBQE2, MEBQE4, MEBQE5, MEBQE6, MEBQE8, MEBQE9  
MEBQF0, MEBQG4, MEBQG5, MEBQG6

DC-338: During review of the following inorganic samples, the reported IDL/default CRDL value was used for cyanide.

MEBQD5, MEBQD6, MEBQD7, MEBQD8, MEBQD9, MEBQE0  
MEBQE1, MEBQE2, MEBQE3, MEBQE4  
MEBQE5, MEBQE6, MEBQE7, MEBQE8  
MEBQE9, MEBQF0, MEBQF4, MEBQG4, MEBQG5, MEBQG6

4. MATRIX SPIKE/MATRIX SPIKE DUPLICATE AND LAB CONTROL SAMPLE:

MATRIX SPIKE CRITERIA

Inorganic

Percent Recovery Limits

Upper 125.0

Reviewed By: J. Ganz  
Date: November 10, 1998

Case Number : 26593  
Site Name: Himco Dump

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SDG Number: MEBQD5  
Laboratory: SVL

Lower 75.0  
Extreme lower 30.0

DC-268: The following inorganic samples are associated with a matrix spike recovery which is low, indicating that sample results may be biased low.

Hits are qualified "J" and non-detects are qualified "UJ".

Arsenic

MEBQD5, MEBQD6, MEBQD7, MEBQD8, MEBQD9, MEBQE0  
MEBQE1, MEBQE2, MEBQE3, MEBQE4, MEBQE5  
MEBQE6, MEBQE7, MEBQF4, MEBQG4, MEBQG5, MEBQG6

Selenium

MEBQE8, MEBQE9, MEBQF0

No problems were found for the laboratory control sample.

5. LABORATORY AND FIELD DUPLICATE

No problems were found for this qualification.

6. ICP ANALYSIS

No problems were found for this qualification.

7. GFAA ANALYSIS

DC-324: The following inorganic samples have furnace AA post-digest spike percent recoveries which are out of control. The sample results are less than 50% of the spike concentration.

Hits are qualified "J" and non-detects are qualified "UJ".

Arsenic

MEBQD8, MEBQE1, MEBQE2, MEBQE3, MEBQE4  
MEBQE5, MEBQE7, MEBQF4, MEBQG5, MEBQG6

Lead

MEBQD5, MEBQE6, MEBQE8, MEBQE9, MEBQF0  
MEBQG6

Selenium

MEBQD7, MEBQG5

The reviewer added a "W" flag to the MEBQF0 Pb result on form 1.

DC-326: The following inorganic samples were associated with MSA analy for which incorrect spike amounts were used.

Reviewed By: J. Ganz  
Date: November 10, 1998

Case Number : 26593  
Site Name: Himco Dump

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SDG Number: MEBQD5  
Laboratory: SVL

Hits are qualified "J".

Arsenic

MEBQD5, MEBQD7, MEBQE0, MEBQE6, MEBQF0, MEBQG4

Lead

MEBQE3, MEBQE4, MEBQE5, MEBQE7, MEBQF4

#### 8. SAMPLE RESULTS

All data, except those qualified above, are acceptable.

Reviewed By: J. Ganz  
Date: November 10, 1998

CADRE Data Qualifier Sheet

| <u>Qualifiers</u> | <u>Data Qualifier Definitions</u>   |
|-------------------|---|
| U                 | The analyte was analyzed for, but was not detected above the reported sample quantitation limit.  |
| J                 | The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.   |
| UJ                | The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the action limit of quantitation necessary to accurately and precisely measure the analyte in the sample. |
| R                 | The data are unusable. (The compound may or may not be present)   |

Case #: 26593 SDG: MEBQD5  
 Site: Himco Dump  
 Lab.: SILVER  
 Reviewer: J. Ganz  
 Date: November 10, 1998

| Sample Number:   | MEBQE8   | MEBQE9   | MEBQF0   |  |  |  |  |  |  |  |
|------------------|----------|----------|----------|--|--|--|--|--|--|--|
| Sampling Locatio | WT102A   | WT112A   | WT114A   |  |  |  |  |  |  |  |
| Matrix:          | Water    | Water    | Water    |  |  |  |  |  |  |  |
| Units:           | ug/L     | ug/L     | ug/L     |  |  |  |  |  |  |  |
| Date Sampled:    | 10/19/98 | 10/20/98 | 10/20/98 |  |  |  |  |  |  |  |
| % Solids:        | 0.0      | 0.0      | 0.0      |  |  |  |  |  |  |  |
| Dilution Factor: | 1.0      | 1.0      | 1.0      |  |  |  |  |  |  |  |

| ANALYTE | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag |
|-----------|--------|------|--------|------|--------|------|--------|------|--------|------|
| Aluminum  | 27.6   | J    | 26.0   | UJ   | 26.0   | UJ   |        |      |        |      |
| Antimony  | 42.2   | UJ   | 42.2   | UJ   | 42.2   | UJ   |        |      |        |      |
| Arsenic   | 0.90   | UJ   | 0.90   | UJ   | 24.3   | J    |        |      |        |      |
| Barium    | 47.3   | J    | 36.6   | J    | 238    | J    |        |      |        |      |
| Beryllium | 0.60   | UJ   | 0.60   | UJ   | 0.60   | UJ   |        |      |        |      |
| Cadmium   | 4.6    | UJ   | 4.6    | UJ   | 4.6    | UJ   |        |      |        |      |
| Calcium   | 17100  | J    | 19000  | J    | 27000  | J    |        |      |        |      |
| Chromium  | 20.3   | J    | 7.5    | J    | 12.0   | J    |        |      |        |      |
| Cobalt    | 7.8    | UJ   | 7.8    | UJ   | 11.9   | J    |        |      |        |      |
| Copper    | 4.1    | UJ   | 4.1    | UJ   | 4.1    | UJ   |        |      |        |      |
| Iron      | 96.8   | J    | 11.7   | UJ   | 17900  | J    |        |      |        |      |
| Lead      | 0.50   | UJ   | 0.50   | UJ   | 0.50   | UJ   |        |      |        |      |
| Magnesium | 16600  | J    | 14000  | J    | 24800  | J    |        |      |        |      |
| Manganese | 61.5   | J    | 6.7    | J    | 306    | J    |        |      |        |      |
| Mercury   | 0.10   | J    | 0.10   | UJ   | 0.10   | UJ   |        |      |        |      |
| Nickel    | 73.0   | J    | 28.3   | UJ   | 28.3   | UJ   |        |      |        |      |
| Potassium | 1610   | J    | 1330   | J    | 6640   | J    |        |      |        |      |
| Selenium  | 6.0    | UJ   | 6.0    | UJ   | 6.0    | UJ   |        |      |        |      |
| Silver    | 6.1    | J    | 5.3    | UJ   | 5.3    | UJ   |        |      |        |      |
| Sodium    | 48000  | J    | 13300  | J    | 47100  | J    |        |      |        |      |
| Thallium  | 0.40   | UJ   | 0.40   | UJ   | 0.40   | UJ   |        |      |        |      |
| Vanadium  | 12.3   | UJ   | 12.3   | UJ   | 12.3   | UJ   |        |      |        |      |
| Zinc      | 3.2    | UJ   | 3.2    | UJ   | 3.2    | J    |        |      |        |      |
| Cyanide   | 8.5    | J    | 7.3    | J    | 7.8    | J    |        |      |        |      |

Case #: 26593      SDG: MEBQD5  
 Site:              Himco Dump  
 Lab. :              SILVER  
 Reviewer:         J. Ganz  
 Date:              November 10, 1998

| Sample Number:   | MEBQD5   | MEBQD6   | MEBQD7   | MEBQD8   | MEBQD9   |
|------------------|----------|----------|----------|----------|----------|
| Sampling Locatio | SB15-0.5 | SB15-2   | SB15-6   | SB18-0.5 | SB18-2   |
| Matrix:          | Soil     | Soil     | Soil     | Soil     | Soil     |
| Units:           | mg/kg    | mg/kg    | mg/kg    | mg/kg    | mg/kg    |
| Date Sampled:    | 10/19/98 | 10/19/98 | 10/19/98 | 10/19/98 | 10/19/98 |
| % Solids:        | 86.5     | 93.1     | 89.6     | 88.8     | 92.2     |
| Dilution Factor: | 1.0      | 1.0      | 1.0      | 1.0      | 1.0      |

| ANALYTE | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag |
|-----------|--------|------|--------|------|--------|------|--------|------|--------|------|
| Aluminum  | 3470   |      | 2860   |      | 8750   |      | 4320   |      | 6200   |      |
| Antimony  | 9.8    | U    | 9.1    | U    | 9.4    | U    | 9.5    | U    | 9.2    | U    |
| Arsenic   | 6.0    | J    | 4.4    | J    | 7.0    | J    | 1.5    | J    | 4.8    | J    |
| Barium    | 102    |      | 133    |      | 112    |      | 81.1   |      | 89.8   |      |
| Beryllium | 0.60   | J    | 0.50   | J    | 0.80   | J    | 0.40   | J    | 0.20   | J    |
| Cadmium   | 1.1    |      | 1.2    |      | 2.0    |      | 1.0    | U    | 1.2    |      |
| Calcium   | 16400  |      | 26800  |      | 31700  |      | 4230   |      | 13000  |      |
| Chromium  | 12.9   |      | 14.0   |      | 17.9   |      | 10.5   |      | 19.8   |      |
| Cobalt    | 5.1    | J    | 5.0    | J    | 10.8   |      | 4.5    | J    | 5.9    | J    |
| Copper    | 113    |      | 283    |      | 2220   |      | 41.7   |      | 25.6   |      |
| Iron      | 26000  |      | 19400  |      | 13500  |      | 8960   |      | 15000  |      |
| Lead      | 695    | J    | 287    |      | 231    | J    | 67.4   |      | 83.4   |      |
| Magnesium | 4810   |      | 5420   |      | 22600  |      | 1810   |      | 4440   |      |
| Manganese | 514    |      | 399    |      | 1410   |      | 474    |      | 513    |      |
| Mercury   | 0.40   |      | 0.50   |      | 0.10   | J    | 0.30   |      | 0.10   | J    |
| Nickel    | 21.0   | J    | 23.7   | J    | 298    |      | 6.4    | U    | 15.0   | J    |
| Potassium | 363    | J    | 385    | J    | 566    | J    | 539    | J    | 210    | J    |
| Selenium  | 0.10   | U    | 0.10   | U    | 0.10   | UJ   | 0.10   | U    | 0.10   | U    |
| Silver    | 1.2    | U    | 2.0    |      | 1.2    | U    | 1.2    | U    | 1.2    | U    |
| Sodium    | 65.0   | J    | 60.9   | J    | 184    | J    | 75.7   | J    | 78.2   | J    |
| Thallium  | 0.10   |      | 0.08   | U    | 0.09   | U    | 0.09   | U    | 0.09   | U    |
| Vanadium  | 11.1   | J    | 10.2   | J    | 17.1   |      | 11.2   | J    | 18.0   |      |
| Zinc      | 427    |      | 465    |      | 1120   |      | 103    |      | 160    |      |
| Cyanide   | 1.1    | J    | 0.90   | J    | 4.7    |      | 0.50   | J    | 1.5    | J    |

SB5-0.5

Analytical Results (Qualified Data) Page 3 of 5

Case #: 26593 SDG: MEBQD5  
 Site: Himco Dump  
 Lab.: SILVER  
 Reviewer: J. Ganz  
 Date: November 10, 1998

|                  |          |          |          |          |          |
|------------------|----------|----------|----------|----------|----------|
| Sample Number:   | MEBQE0   | MEBQE1   | MEBQE2   | MEBQE3   | MEBQE4   |
| Sampling Locatio | SB18-6   | SB15-0.5 | SB05-2   | SB04-0.5 | SB04-2   |
| Matrix:          | Soil     | Soil     | Soil     | Soil     | Soil     |
| Units:           | mg/kg    | mg/kg    | mg/kg    | mg/kg    | mg/kg    |
| Date Sampled:    | 10/19/98 | 10/19/98 | 10/19/98 | 10/19/98 | 10/19/98 |
| % Solids:        | 79.8     | 94.8     | 96.0     | 93.4     | 93.7     |
| Dilution Factor: | 1.0      | 1.0      | 1.0      | 1.0      | 1.0      |

| ANALYTE | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag |
|-----------|--------|------|--------|------|--------|------|--------|------|--------|------|
| Aluminum  | 5540   |      | 2580   |      | 3070   |      | 3340   |      | 5130   |      |
| Antimony  | 10.6   | U    | 8.9    | U    | 8.8    | U    | 9.0    | U    | 9.0    | U    |
| Arsenic   | 3.4    | J    | 1.2    | J    | 0.60   | J    | 1.0    | J    | 1.1    | J    |
| Barium    | 130    |      | 44.7   |      | 34.5   |      | 21.2   |      | 39.5   |      |
| Beryllium | 0.30   | J    | 0.20   | J    | 0.30   | J    | 0.10   | J    | 0.20   | J    |
| Cadmium   | 1.2    | U    | 1.1    |      | 1.0    | U    | 1.0    | U    | 1.0    | U    |
| Calcium   | 14300  |      | 5460   |      | 4180   |      | 1020   |      | 1530   |      |
| Chromium  | 11.1   |      | 7.0    |      | 8.3    |      | 4.8    |      | 6.4    |      |
| Cobalt    | 5.7    | J    | 3.2    | J    | 3.1    | J    | 1.7    | U    | 1.7    | U    |
| Copper    | 36.0   |      | 16.4   |      | 17.1   |      | 3.8    | J    | 3.3    | J    |
| Iron      | 7950   |      | 4590   |      | 4360   |      | 4120   |      | 5070   |      |
| Lead      | 88.9   |      | 56.9   |      | 22.3   |      | 8.1    | J    | 7.8    | J    |
| Magnesium | 3470   |      | 2390   |      | 2050   |      | 724    |      | 833    |      |
| Manganese | 312    |      | 109    |      | 66.4   |      | 69.9   |      | 86.2   |      |
| Mercury   | 0.09   | J    | 0.08   | J    | 0.06   | J    | 0.05   | U    | 0.05   | U    |
| Nickel    | 9.4    | J    | 6.2    | J    | 12.3   | J    | 6.1    | U    | 6.0    | U    |
| Potassium | 328    | J    | 195    | U    | 419    | J    | 198    | U    | 288    | J    |
| Selenium  | 0.20   | U    | 0.10   | U    | 0.10   | U    | 0.10   | U    | 0.10   | U    |
| Silver    | 1.3    | U    | 1.1    | U    | 1.1    | U    | 1.1    | U    | 1.1    | U    |
| Sodium    | 87.1   | J    | 50.2   | J    | 50.6   | J    | 34.5   | J    | 525    |      |
| Thallium  | 0.10   | U    | 0.08   | U    | 0.08   | U    | 0.08   | U    | 0.08   | U    |
| Vanadium  | 16.1   |      | 8.3    | J    | 9.2    | J    | 7.0    | J    | 9.4    | J    |
| Zinc      | 182    |      | 72.9   |      | 52.4   |      | 15.6   |      | 17.3   |      |
| Cyanide   | 0.40   | J    | 0.30   | J    | 0.20   | J    | 0.10   | U    | 0.10   | J    |

Case #: 26593 SDG: MEBQD5  
 Site: Himco Dump  
 Lab.: SILVER  
 Reviewer: J. Ganz  
 Date: November 10, 1998

| Sample Number:   | MEBQE5   | MEBQE6   | MEBQE7   | MEBQF4   | MEBQG4     |
|------------------|----------|----------|----------|----------|------------|
| Sampling Locatio | SB04-6   | SB06-0.5 | SB06-10  | SB06-2   | UNREADABLE |
| Matrix:          | Soil     | Soil     | Soil     | Soil     | Soil       |
| Units:           | mg/kg    | mg/kg    | mg/kg    | mg/kg    | mg/kg      |
| Date Sampled:    | 10/19/98 | 10/19/98 | 10/19/98 | 10/19/98 | 10/20/98   |
| % Solids:        | 81.6     | 90.0     | 90.2     | 93.8     | 89.5       |
| Dilution Factor: | 1.0      | 1.0      | 1.0      | 1.0      | 1.0        |

| ANALYTE   | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag |
|-----------|--------|------|--------|------|--------|------|--------|------|--------|------|
| Aluminum  | 3340   |      | 4220   |      | 3000   |      | 2770   |      | 3900   |      |
| Antimony  | 10.3   | U    | 9.4    | U    | 9.4    | U    | 9.0    | U    | 9.4    | U    |
| Arsenic   | 0.60   | J    | 2.1    | J    | 1.4    | J    | 1.1    | J    | 2.1    | J    |
| Barium    | 18.7   |      | 51.8   |      | 47.7   |      | 40.4   |      | 65.8   |      |
| Beryllium | 0.10   | U    | 0.10   | U    | 0.10   | U    | 0.30   | J    | 0.30   | J    |
| Cadmium   | 1.1    | U    | 1.0    | U    | 1.0    | U    | 1.0    | U    | 1.2    |      |
| Calcium   | 2070   |      | 1750   |      | 1660   |      | 728    |      | 9970   |      |
| Chromium  | 5.1    |      | 4.5    |      | 5.5    |      | 4.6    |      | 8.5    |      |
| Cobalt    | 1.9    | U    | 3.3    | J    | 1.9    | J    | 2.8    | J    | 3.2    | J    |
| Copper    | 3.1    | J    | 20.4   |      | 19.9   |      | 22.6   |      | 18.9   |      |
| Iron      | 2570   |      | 6200   |      | 4800   |      | 3660   |      | 5970   |      |
| Lead      | 6.2    | J    | 13.4   | J    | 17.2   | J    | 9.4    | J    | 167    |      |
| Magnesium | 346    |      | 746    |      | 598    |      | 470    |      | 1550   |      |
| Manganese | 58.1   |      | 337    |      | 296    |      | 227    |      | 326    |      |
| Mercury   | 0.06   | U    | 0.06   | U    | 0.06   | U    | 0.05   | U    | 0.10   | J    |
| Nickel    | 6.9    | U    | 9.6    | J    | 7.0    | J    | 6.0    | U    | 8.8    | J    |
| Potassium | 227    | U    | 219    | J    | 205    | U    | 227    | J    | 423    | J    |
| Selenium  | 0.10   | U | 0.10 | U | 0.10 | U | 0.10 | U | 0.10 | U |
| Silver    | 1.3    | U    | 1.2    | U    | 1.2    | U    | 1.1    | U    | 1.2    | U    |
| Sodium    | 110    | J    | 24.8   | J    | 18.1   | U    | 32.6   | J    | 48.6   | J    |
| Thallium  | 0.10   | U    | 0.09   | U    | 0.09   | U    | 0.08   | U    | 0.09   | U    |
| Vanadium  | 3.7    | J    | 8.5    | J    | 7.0    | J    | 5.2    | J    | 8.5    | J    |
| Zinc      | 10.0   |      | 52.3   |      | 45.0   |      | 41.0   |      | 109    |      |
| Cyanide   | 0.20   | J    | 0.30   | J    | 0.10   | U    | 0.10   | U    | 0.50   | J    |

Case #: 26593      SDG: MEBQD5  
 Site:              Himco Dump  
 Lab. :              SILVER  
 Reviewer:         J. Ganz  
 Date:               November 10, 1998

| Sample Number:     | MEBQD5     | MEBQD6     |        |      |        |      |        |      |        |      |
|--------------------|------------|------------|--------|------|--------|------|--------|------|--------|------|
| Sampling Location: | UNREADABLE | UNREADABLE |        |      |        |      |        |      |        |      |
| Matrix:            | Soil       | Soil       |        |      |        |      |        |      |        |      |
| Units:             | mg/kg      | mg/kg      |        |      |        |      |        |      |        |      |
| Date Sampled:      | 10/20/98   | 10/20/98   |        |      |        |      |        |      |        |      |
| % Solids:          | 92.2       | 92.3       |        |      |        |      |        |      |        |      |
| Dilution Factor:   | 1.0        | 1.0        |        |      |        |      |        |      |        |      |
| ANALYTE            | Result     | Flag       | Result | Flag | Result | Flag | Result | Flag | Result | Flag |
| Aluminum           | 3980       |            | 3220   |      |        |      |        |      |        |      |
| Antimony           | 9.2        | U          | 9.1    | U    |        |      |        |      |        |      |
| Arsenic            | 0.90       | J          | 0.90   | J    |        |      |        |      |        |      |
| Barium             | 35.7       |            | 33.6   |      |        |      |        |      |        |      |
| Beryllium          | 0.20       | J          | 0.30   | J    |        |      |        |      |        |      |
| Cadmium            | 1.3        |            | 1.0    | U    |        |      |        |      |        |      |
| Calcium            | 9300       |            | 12000  |      |        |      |        |      |        |      |
| Chromium           | 14.2       |            | 12.9   |      |        |      |        |      |        |      |
| Cobalt             | 3.9        | J          | 3.3    | J    |        |      |        |      |        |      |
| Copper             | 14.4       |            | 17.0   |      |        |      |        |      |        |      |
| Iron               | 9180       |            | 11300  |      |        |      |        |      |        |      |
| Lead               | 58.7       |            | 45.6   | J    |        |      |        |      |        |      |
| Magnesium          | 3060       |            | 3000   |      |        |      |        |      |        |      |
| Manganese          | 203        |            | 220    |      |        |      |        |      |        |      |
| Mercury            | 0.08       | J          | 0.10   | J    |        |      |        |      |        |      |
| Nickel             | 12.0       | J          | 15.4   | J    |        |      |        |      |        |      |
| Potassium          | 310        | J          | 279    | J    |        |      |        |      |        |      |
| Selenium           | 0.10       | UJ         | 0.10   | U    |        |      |        |      |        |      |
| Silver             | 1.1        | U          | 1.1    | U    |        |      |        |      |        |      |
| Sodium             | 54.7       | J          | 74.3   | J    |        |      |        |      |        |      |
| Thallium           | 0.09       | U          | 0.09   | U    |        |      |        |      |        |      |
| Vanadium           | 9.8        | J          | 6.0    | J    |        |      |        |      |        |      |
| Zinc               | 175        |            | 90.9   |      |        |      |        |      |        |      |
| Cyanide            | 0.30       | J          | 0.90   | J    |        |      |        |      |        |      |

QC EXCEPTION SUMMARY REPORT

CASE \ SAS #: 26593  
 DATA SET: MEBQDS  
 LAB QC # \_\_\_\_\_  
 DATE: 11-6-98

SITE: Himco Dump Site  
 LAB: SVL  
 REVIEWED BY: J. Ganz

MATRIX: Soil/Water WATER SAMPLE SPK: \_\_\_\_\_  
 CONC: low WATER SAMPLE DUP: \_\_\_\_\_  
 SOIL SAMPLE SPK: \_\_\_\_\_  
 SOIL SAMPLE DUP: \_\_\_\_\_

| FORM 1    | FORM 2    | FORM 1        | FORM 3          | FORM 3      | FORM 3           | FORM 4          | FORM 5 | FORM 6        | FORM 7       | FORM 7 | FORM 9   | FORM 9                  | FORM 6               | FORM 3     | FIELD       | FIELD | FIELD   | FIELD |         |          |                   |
|-----------|-----------|---------------|-----------------|-------------|------------------|-----------------|--------|---------------|--------------|--------|----------|-------------------------|----------------------|------------|-------------|-------|---------|-------|---------|----------|-------------------|
| ELEMENT   | HOLD TIME | INITIAL CALIB | CONTI N 1 CALIB | CALIB BLANK | PREP WATER BLANK | PREP SOL. BLANK | KB %R  | SOIL SPIKE %R | SOIL DUP RPD | LCS AQ | LCS SOIL | SERIAL DILUTION AQUEOUS | SERIAL DILUTION SOIL | AQ DUP RPD | AQ SPIKE %R | BLANK | DUP RPD | BLANK | DUP RPD | GFAA DUP | GFAA ANALYT SPIKE |
| ALUMINUM  |           |               |                 | 32.3        | 26.22            |                 |        |               |              |        |          |                         |                      |            |             |       |         |       |         |          |                   |
| ANTIMONY  |           |               |                 |             |                  |                 |        |               |              |        |          |                         |                      |            |             |       |         |       |         |          |                   |
| ARSENIC   |           |               |                 |             |                  |                 |        | 30.6          |              |        |          |                         |                      |            |             |       |         |       |         |          |                   |
| BARUM     |           |               |                 |             |                  |                 |        |               |              |        |          |                         |                      |            |             |       |         |       |         |          |                   |
| BERYLLIUM |           |               |                 | 1.1         |                  | 0.15            |        |               |              |        |          |                         |                      |            |             |       |         |       |         |          |                   |
| CADMIUM   |           |               |                 |             |                  |                 |        |               |              |        |          |                         |                      |            |             |       |         |       |         |          |                   |
| CALCIUM   |           |               |                 |             |                  |                 |        |               |              |        |          |                         |                      |            |             |       |         |       |         |          |                   |
| CHROMIUM  |           |               |                 |             |                  |                 |        |               |              |        |          |                         |                      |            |             |       |         |       |         |          |                   |
| COBALT    |           |               |                 | 8.8         |                  |                 |        |               |              |        |          |                         |                      |            |             |       |         |       |         |          |                   |
| COPPER    |           |               |                 | -5.3        |                  |                 |        |               |              |        |          |                         |                      |            |             |       |         |       |         |          |                   |
| IRON      |           |               |                 |             |                  |                 |        |               |              |        |          |                         |                      |            |             |       |         |       |         |          |                   |
| LEAD      |           |               |                 |             |                  |                 |        |               |              |        |          |                         |                      |            |             |       |         |       |         |          |                   |
| MAGNESIUM |           |               |                 |             |                  |                 |        |               |              |        |          |                         |                      |            |             |       |         |       |         |          |                   |
| MANGANESE |           |               |                 | 2.9         |                  |                 |        |               |              |        |          |                         |                      |            |             |       |         |       |         |          |                   |
| MERCURY   |           |               |                 | 0.1         |                  |                 |        |               |              |        |          |                         |                      |            |             |       |         |       |         |          |                   |
| NICKEL    |           |               |                 | 29.6        |                  |                 |        |               |              |        |          |                         |                      |            |             |       |         |       |         |          |                   |
| POTASSIUM |           |               |                 | 1006        |                  |                 |        |               |              |        |          |                         |                      |            |             |       |         |       |         |          |                   |
| SELENIUM  |           |               |                 |             |                  |                 |        |               |              |        |          |                         |                      |            | 38.6        |       |         |       |         |          |                   |
| SILVER    |           |               |                 |             |                  |                 |        |               |              |        |          |                         |                      |            |             |       |         |       |         |          |                   |
| SODIUM    |           |               |                 |             |                  |                 |        |               |              |        |          |                         |                      |            |             |       |         |       |         |          |                   |
| TALLIUM   |           |               |                 |             |                  |                 |        |               |              |        |          |                         |                      |            |             |       |         |       |         |          |                   |
| TIN       |           |               |                 |             |                  |                 |        |               |              |        |          |                         |                      |            |             |       |         |       |         |          |                   |
| VANADIUM  |           |               |                 | 13.9        |                  |                 |        |               |              |        |          |                         |                      |            |             |       |         |       |         |          |                   |
| ZINC      |           |               |                 | 5.1         |                  |                 |        |               |              |        |          |                         |                      |            |             |       |         |       |         |          |                   |
| CYANIDE   |           |               |                 |             | 8.454            | 0.498           |        |               |              |        |          |                         |                      |            |             |       |         |       |         |          |                   |

SILVER

\*\*\*\*\*CASE NARRATIVE

CASE: 26593  
SDG: MEBQD5

SILVER RECEIVED SOIL AND WATER SAMPLES FOR METALS AND CYANIDE.

COOLER TEMPERATURES:

|                 |            |    |
|-----------------|------------|----|
| AIRBILL NUMBER: | 7642848861 | 3° |
|                 | 7222748260 | 4° |
|                 | 7222748256 | 4° |
|                 | 7642849211 | 4° |
|                 | 1172422112 | 4° |

NOTE pH ON HNO3 PRESERVED BOTTLES:

|        |    |   |
|--------|----|---|
| MEBQE8 | pH | 3 |
| MEBQE9 | pH | 3 |
| MEBQFO | pH | 3 |

AS PER DISCUSSION WITH CHARLES HUTCHINSON (REFERENCE TELEPHONE LOG) SILVER PROCEEDED WITH ANALYSIS.

DISK TO DYNACORP AND REGION 5.

  
MELBA BENCICH  
DOCUMENT CONTROL OFFICER

Regional Transmittal Form

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION V

DATE: 11/23/98

SUBJECT: Review of Data  
Received for Review on Nov 16, 1998

FROM: Stephen L. Ostrodka, Chief (HSRL-5J) / LF  
Superfund Technical Support Section

TO: Data User: USACE

We have reviewed the data for the following case:

SITE NAME: Hines Dump (IN)

CASE NUMBER: 26551 SDG NUMBER: MEBQC1

Number and Type of Samples: 14 (Soil) metals

Sample Numbers: MEBQC1-9 MEBQD0-4

Laboratory: Datachem Hrs. for Review: 9.5 hrs

Following are our findings:

+1.5

All data are usable with the qualifications described in the attached narrative.

L. Finkelberg

11-23-98

CC: Cecilia Moore  
Region 5 TPO  
Mail Code: SM-5J

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION V

DATE: November 18, 1998

SUBJECT: Review of Data  
Received for Review on November 16, 1998

FROM: Stephen L. Ostrodka, Chief (SRT-4J)  
Superfund Technical Support Section

TO: Data User: USACE

We have reviewed the data by CADRE for the following case:

SITE NAME: Himco Dump (IN)

CASE NUMBER: 26551 SDG NUMBER: MEBQC1

Number and Type of Samples: 14 (soil)

Sample Numbers: MEBQC1-9 MEBQD0-4

Laboratory: Datachem Hrs. for Review: \_\_\_\_\_

Following are our findings:

CC: Cecilia Moore  
Region 5 TPO  
Mail Code: SM-5J

Case Number: 26551  
Site Name: Himco Dump (IN)

SDG Number: MEBQC1  
Laboratory: Datachem

Below is a summary of the out-of-control audits and the possible effects on the data for this case:

14 soil samples, numbered *MEBQC1-9* *MEBQD0-4*, were collected on 10/12 and 10/15/98. The lab received the samples on 10/13 and 10/17/98 in good condition. All samples were analyzed for metals and cyanide. All samples were analyzed using CLP SOW ILM04.0 analysis procedure.

Mercury analysis was performed using a Cold Vapor AA Technique. Cyanide analysis was performed using *MIDI Distillation* procedure. The remaining inorganic analyses were performed using an Inductively Coupled Plasma-Atomic Emission Spectrometric procedure.

Case Number: 26551  
Site Name: Himco Dump (IN)

SDG Number: MEBQC1  
Laboratory: Datachem

1. HOLDING TIME:

HOLDING TIME CRITERIA

-----

Inorganic

-----

|         | -- Holding Time -- |          | ----- pH ----- |          |
|---------|--------------------|----------|----------------|----------|
|         | Primary            | Expanded | Primary        | Expanded |
| Metals  | 180                | 0        | 2.0            | 0.0      |
| Mercury | 28                 | 0        | 2.0            | 0.0      |
| Cyanide | 14                 | 0        | 12.0           | 0.0      |

DC-280: The following inorganic soil samples were reviewed for holding time violations using criteria developed for water samples.

MEBQC1, MEBQC2, MEBQC3, MEBQC4, MEBQC5, MEBQC6, MEBQC7, MEBQC8  
MEBQC9, MEBQD0, MEBQD1, MEBQD2, MEBQD3, MEBQD4

2. CALIBRATIONS:

CALIBRATION CRITERIA

-----

Inorganic

-----

Percent Recovery Limits

-----

|         | --- Primary --- |        | -- Expanded -- |        |
|---------|-----------------|--------|----------------|--------|
|         | Low             | High   | Low            | High   |
| Cyanide | 85.00           | 115.00 | 70.00          | 130.00 |
| ICP     | 90.00           | 110.00 | 75.00          | 125.00 |
| Mercury | 80.00           | 120.00 | 65.00          | 135.00 |

No problems were found for this qualification.

Reviewed By: T. Balikji-Shammo  
Date: November 18, 1998

3. BLANKS:

LABORATORY BLANKS CRITERIA  
-----

DC-283: The following inorganic samples are associated with a blank analyte with negative concentration whose absolute value is greater than the instrument detection limit (IDL). The sample concentration is also greater than the IDL and less than five times the absolute value of the blank. Hits are flagged "J". Some non-detect readings are sufficiently high that the detection limit may be elevated. These non-detects are flagged "UJ".

Beryllium

MEBQC4, MEBQC5, MEBQD3, MEBQD4

Chromium

MEBQC1, MEBQC2

DC-284: The following inorganic samples are associated with a blank concentration which is greater than the instrument detection limit (IDL). The sample concentration is also greater than the IDL and less than five times the blank concentration. Hits are qualified "J"; non-detects are acceptable.

Chromium

MEBQC1, MEBQC2, MEBQC6, MEBQC9, MEBQD1, MEBQD3,

Cobalt

MEBQC3, MEBQC4, MEBQC5, MEBQC6, MEBQC7, MEBQC8, MEBQD0, MEBQD1,  
MEBQD2, MEBQD3

Copper

MEBQC2

Potassium

MEBQC1, MEBQC3, MEBQC4, MEBQC5, MEBQC6, MEBQC7, MEBQC8,  
MEBQD0, MEBQD1, MEBQD2, MEBQD3, MEBQD4

Selenium

MEBQC1, MEBQC2, MEBQC3, MEBQC4, MEBQC5, MEBQC6, MEBQC7, MEBQC9,  
MEBQD0, MEBQD1, MEBQD2, MEBQD3, MEBQD4

Reviewed By: T.Balikji-Shammo

Date: November 18, 1998

Case Number: 26551  
Site Name: Himco Dump (IN)

SDG Number: MEBQC1  
Laboratory: Datachem

Sodium  
MEBQC1, MEBQC2, MEBQC6, MEBQC9, MEBQD1

Vanadium  
MEBQC2

Cyanide  
MEBQC1, MEBQC2, MEBQC6, MEBQC8, MEBQC9, MEBQD1, MEBQD2, MEBQD4

DC-338: During review of the following inorganic samples, the reported IDL/default CRDL value was used for cyanide.

MEBQC1, MEBQC2, MEBQC3, MEBQC4, MEBQC5, MEBQC6, MEBQC7, MEBQC  
MEBQC9, MEBQD0, MEBQD1, MEBQD2, MEBQD3, MEBQD4

4. MATRIX SPIKE/MATRIX SPIKE DUPLICATE AND LAB CONTROL SAMPLE:

MATRIX SPIKE CRITERIA

-----

Inorganic

-----

Percent Recovery Limits

-----

|               |       |
|---------------|-------|
| Upper         | 125.0 |
| Lower         | 75.0  |
| Extreme lower | 30.0  |

DC-268: The following inorganic samples are associated with a matrix spike recovery which is low (30-74 %) indicating that sample results may be biased low.

Hits are qualified "J" and non-detects are qualified "UJ".

Antimony

MEBQC1, MEBQC2, MEBQC3, MEBQC4, MEBQC5, MEBQC6, MEBQC7, MEBQC  
MEBQC9, MEBQD0, MEBQD1, MEBQD2, MEBQD3, MEBQD4

Reviewed By: T. Balikji-Shammo  
Date: November 18, 1998

Case Number: 26551  
Site Name: Himco Dump (IN)

SDG Number: MEBQC1  
Laboratory: Datachem

No problems were found for the lab control sample.

5. LABORATORY AND FIELD DUPLICATE

No problems were found for this qualification.

6. ICP ANALYSIS

DC-294: The analyte concentration is high (>50 X the IDL) and serial dilution percent difference is not in control (>10%).  
All associated data are qualified "J".

Calcium

MEBQC1, MEBQC2, MEBQC3, MEBQC4, MEBQC5, MEBQC6, MEBQC7, MEBQC8  
MEBQC9, MEBQD0, MEBQD1, MEBQD2, MEBQD3, MEBQD4

Magnesium

MEBQC1, MEBQC2, MEBQC3, MEBQC4, MEBQC5, MEBQC6, MEBQC7, MEBQC8  
MEBQC9, MEBQD0, MEBQD1, MEBQD2, MEBQD3, MEBQD4

7. GFAA ANALYSIS

No GFAA analysis was performed.

8. SAMPLE RESULTS

All data, except those qualified above, are acceptable.

Reviewed By: T.Balikji-Shammo

Date: November 18, 1998

CADRE Data Qualifier Sheet

Qualifiers

Data Qualifier Definitions

- U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- J The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.
- UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the action limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
- R The data are unusable. (The compound may or may not be present)

FILE NAME: MEBQC1 DATE: 11/11/98 TIME: 16:22

CRITERIA FILE: FGDR194

DATA

Original  Qualified

QUALIFICATIONS PERFORMED

|  |   |
|--|---|
| <input type="checkbox"/> Quantitation Limit          | <input checked="" type="checkbox"/> CRDL Standards              |
| <input checked="" type="checkbox"/> Percent Moisture | <input checked="" type="checkbox"/> ICS                         |
| <input checked="" type="checkbox"/> Holding Time     | <input checked="" type="checkbox"/> LCS                         |
| <input checked="" type="checkbox"/> Calibrations     | <input checked="" type="checkbox"/> Duplicates                  |
| <input checked="" type="checkbox"/> Matrix Spikes    | <input checked="" type="checkbox"/> Furnace AA QC               |
| <input type="checkbox"/> IPC                         | <input checked="" type="checkbox"/> ICP Serial Dilutions        |
| <input type="checkbox"/> Internal Standards          | <input checked="" type="checkbox"/> Sample Results Verification |
| <input type="checkbox"/> SMC/Surrogates              | <input checked="" type="checkbox"/> Laboratory Blanks           |
| <input type="checkbox"/> System Performance          | <input type="checkbox"/> Field QC                               |
| <input type="checkbox"/> Sample Cleanup              |   |

PRINT NON-DETECTS

Yes  No

PRINT REJECTED RESULTS

Yes  No

Analytical Results (Qualified Data)  
 Case #: 26551                   SDG: MEBQC1  
 Site:                           Himco Dump (IN)  
 Lab. :                          Datachem  
 Reviewer:                    T.Balikji-Shammo  
 Date:                         November 18, 1998

|                    |          |          |          |          |          |
|--------------------|----------|----------|----------|----------|----------|
| Sample Number:     | MEBQC1   | MEBQC2   | MEBQC3   | MEBQC4   | MEBQC5   |
| Sampling Location: | SB03-05  | SB03-2   | SB20-05  | SB20-2   | SB20-6   |
| Matrix:            | Soil     | Soil     | Soil     | Soil     | Soil     |
| Units:             | mg/kg    | mg/kg    | mg/kg    | mg/kg    | mg/kg    |
| Date Sampled:      | 10/12/98 | 10/12/98 | 10/15/98 | 10/15/98 | 10/15/98 |
| % Solids:          | 89.2     | 90.8     | 91.9     | 92.5     | 93.7     |
| Dilution Factor:   | 1.0      | 1.0      | 1.0      | 1.0      | 1.0      |

| ANALYTE | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag |
|-----------|--------|------|--------|------|--------|------|--------|------|--------|------|
| Aluminum  | 4080   |      | 3960   |      | 3950   |      | 4870   |      | 3420   |      |
| Antimony  | 11.5   | UJ   | 11.3   | UJ   | 11.1   | UJ   | 11.1   | UJ   | 10.9   | UJ   |
| Arsenic   | 1.6    |      | 1.3    |      | 5.8    |      | 10.8   |      | 8.1    |      |
| Barium    | 27.9   |      | 21.9   |      | 172    |      | 201    |      | 72.2   |      |
| Beryllium | 0.20   | U    | 0.20   | U    | 0.20   | U    | 0.70   | J    | 0.70   | J    |
| Cadmium   | 1.0    | U    | 1.0    |      | 1.0    | U    | 1.1    |      | 0.90   | U    |
| Calcium   | 1670   | J    | 480    | J    | 69200  | J    | 24900  | J    | 28700  | J    |
| Chromium  | 5.2    | J    | 5.3    | J    | 25.1   |      | 14.0   |      | 11.1   |      |
| Cobalt    | 3.4    | U    | 3.4    | U    | 4.9    | J    | 5.4    | J    | 6.0    | J    |
| Copper    | 15.9   | J    | 4.3    |      | 242    |      | 664    |      | 54.4   |      |
| Iron      | 3450   |      | 2530   |      | 8700   |      | 20600  |      | 11500  |      |
| Lead      | 9.8    |      | 11.7   |      | 161    |      | 238    |      | 105    |      |
| Magnesium | 697    | J    | 333    | J    | 9940   | J    | 7330   | J    | 8990   | J    |
| Manganese | 58.7   |      | 14.8   |      | 592    |      | 454    |      | 200    |      |
| Mercury   | 0.06   | U    | 0.06   | U    | 27.9   |      | 4.5    |      | 1.2    |      |
| Nickel    | 8.4    | U    | 8.2    | U    | 16.5   |      | 22.3   |      | 11.0   |      |
| Potassium | 253    | J    | 127    | U    | 404    | J    | 483    | J    | 339    | J    |
| Selenium  | 0.80   | J    | 0.90   | J    | 0.60   | J    | 1.3    | J    | 0.70   | J    |
| Silver    | 0.90   | U    | 0.90   | U    | 1.9    |      | 3.1    |      | 1.1    |      |
| Sodium    | 20.4   | J    | 39.0   | J    | 105    |      | 184    |      | 92.5   |      |
| Thallium  | 0.40   | U    | 0.40   | U    | 0.40   | U    | 0.50   |      | 0.40   | U    |
| Vanadium  | 7.8    |      | 5.7    | J    | 12.8   |      | 15.8   |      | 12.9   |      |
| Zinc      | 26.0   |      | 14.4   |      | 324    |      | 537    |      | 121    |      |
| Cyanide   | 0.05   | J    | 0.20   | J    | 3.3    |      | 4.3    |      | 1.2    |      |

Case #: 26551  
 Site: Himco Dump (IN)  
 Lab.: Datachem  
 Reviewer: T. Balikji-Shammo  
 Date: November 18, 1998

| Sample Number:     | MEBQC6   | MEBQC7   | MEBQC8   | MEBQC9   | MEBQD0   |
|--------------------|----------|----------|----------|----------|----------|
| Sampling Location: | SB19-05  | SB19-2   | SB19-6   | SB17-05  | SB17-2   |
| Matrix:            | Soil     | Soil     | Soil     | Soil     | Soil     |
| Units:             | mg/kg    | mg/kg    | mg/kg    | mg/kg    | mg/kg    |
| Date Sampled:      | 10/15/98 | 10/15/98 | 10/15/98 | 10/15/98 | 10/15/98 |
| % Solids:          | 91.4     | 89.8     | 74.4     | 92.7     | 94.2     |
| Dilution Factor:   | 1.0      | 1.0      | 1.0      | 1.0      | 1.0      |

| ANALYTE | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag |
|-----------|--------|------|--------|------|--------|------|--------|------|--------|------|
| Aluminum  | 4120   |      | 4090   |      | 5210   |      | 3230   |      | 5110   |      |
| Antimony  | 11.2   | UJ   | 11.4   | UJ   | 13.8   | UJ   | 11.0   | UJ   | 10.9   | UJ   |
| Arsenic   | 3.4    |      | 6.1    |      | 4.6    |      | 1.5    |      | 2.7    |      |
| Barium    | 53.5   |      | 444    |      | 168    |      | 29.7   |      | 37.4   |      |
| Beryllium | 0.20   | U | 0.20 | U | 0.20 | U | 0.20 | U | 0.20 | U |
| Cadmium   | 1.0    | U    | 1.0    | U    | 1.2    | U    | 1.0    |      | 0.90   | U    |
| Calcium   | 5070   | J    | 21700  | J    | 70500  | J    | 6220   | J    | 18900  | J    |
| Chromium  | 6.9    | J    | 13.1   |      | 14.3   |      | 6.3    | J    | 9.5    |      |
| Cobalt    | 5.0    | J    | 4.9    | J    | 5.4    | J    | 3.3    | U    | 4.3    | J    |
| Copper    | 50.6   |      | 113    |      | 48.8   |      | 63.9   |      | 11.9   |      |
| Iron      | 6700   |      | 9130   |      | 11200  |      | 3760   |      | 6680   |      |
| Lead      | 49.8   |      | 172    |      | 131    |      | 19.9   |      | 10.9   |      |
| Magnesium | 2050   | J    | 5220   | J    | 12600  | J    | 1440   | J    | 4450   | J    |
| Manganese | 373    |      | 286    |      | 250    |      | 73.3   |      | 192    |      |
| Mercury   | 0.06   |      | 0.20   |      | 0.10   |      | 0.05   | U    | 0.05   | U    |
| Nickel    | 13.5   |      | 14.7   |      | 11.3   |      | 8.1    | U    | 8.0    |      |
| Potassium | 210    | J    | 370    | J    | 586    | J    | 125    | U    | 283    | J    |
| Selenium  | 1.0    | J    | 1.6    | J    | 0.60   | U    | 0.80   | J    | 0.80   | J    |
| Silver    | 0.90   | U    | 1.0    |      | 1.1    | U    | 0.90   | U    | 0.90   | U    |
| Sodium    | 36.2   | J    | 86.3   |      | 344    |      | 27.4   | J    | 65.4   |      |
| Thallium  | 0.40   | U    | 0.40   | U    | 0.50   | U    | 0.40   | U    | 0.40   | U    |
| Vanadium  | 10.1   |      | 12.7   |      | 12.7   |      | 6.9    |      | 10.4   |      |
| Zinc      | 81.6   |      | 434    |      | 307    |      | 54.0   |      | 26.6   |      |
| Cyanide   | 0.10   | J    | 0.90   |      | 0.60   |      | 0.06   | J    | 0.60   |      |

Case #: 26551                   SDG: MEBQC1  
 Site:                           Himco Dump (IN)  
 Lab. :                           Datachem  
 Reviewer:                   T.Balikji-Shammo  
 Date:                           November 18, 1998

| Sample Number:     | MEBQD1   | MEBQD2   | MEBQD3   | MEBQD4   |        |      |        |      |        |      |
|--------------------|----------|----------|----------|----------|--------|------|--------|------|--------|------|
| Sampling Location: | SB16-05  | SB16-2   | SB16-6   | SB16-60  |        |      |        |      |        |      |
| Matrix:            | Soil     | Soil     | Soil     | Soil     |        |      |        |      |        |      |
| Units:             | mg/kg    | mg/kg    | mg/kg    | mg/kg    |        |      |        |      |        |      |
| Date Sampled:      | 10/15/98 | 10/15/98 | 10/15/98 | 10/15/98 |        |      |        |      |        |      |
| % Solids:          | 95.6     | 95.7     | 79.9     | 76.9     |        |      |        |      |        |      |
| Dilution Factor:   | 1.0      | 1.0      | 1.0      | 1.0      |        |      |        |      |        |      |
| ANALYTE            | Result   | Flag     | Result   | Flag     | Result | Flag | Result | Flag | Result | Flag |
| Aluminum           | 3340     |          | 4600     |          | 4820   |      | 8860   |      |        |      |
| Antimony           | 10.7     | UJ       | 10.7     | UJ       | 12.8   | UJ   | 13.3   | UJ   |        |      |
| Arsenic            | 3.9      |          | 3.8      |          | 4.7    |      | 5.5    |      |        |      |
| Barium             | 32.5     |          | 55.5     |          | 54.3   |      | 95.7   |      |        |      |
| Beryllium          | 0.20     | U        | 0.20     | U        | 0.80   | J    | 0.90   | J    |        |      |
| Cadmium            | 0.90     | U        | 0.90     | U        | 1.1    | U    | 1.1    | U    |        |      |
| Calcium            | 14000    | J        | 14800    | J        | 41200  | J    | 85900  | J    |        |      |
| Chromium           | 7.9      | J        | 9.6      |          | 13.1   | J    | 11.3   |      |        |      |
| Cobalt             | 4.8      | J        | 4.3      | J        | 3.8    | J    | 4.0    | U    |        |      |
| Copper             | 16.4     |          | 49.0     |          | 18.3   |      | 18.9   |      |        |      |
| Iron               | 8530     |          | 7460     |          | 10800  |      | 16600  |      |        |      |
| Lead               | 17.6     |          | 32.2     |          | 28.2   |      | 26.6   |      |        |      |
| Magnesium          | 4860     | J        | 3530     | J        | 5460   | J    | 7860   | J    |        |      |
| Manganese          | 298      |          | 294      |          | 228    |      | 588    |      |        |      |
| Mercury            | 0.05     | U        | 0.05     | U        | 0.06   | U    | 0.06   | U    |        |      |
| Nickel             | 10.8     |          | 8.8      |          | 11.8   |      | 12.1   |      |        |      |
| Potassium          | 289      | J        | 318      | J        | 283    | J    | 450    | J    |        |      |
| Selenium           | 0.60     | J        | 0.70     | J        | 1.4    | J    | 1.3    | J    |        |      |
| Silver             | 0.80     | U        | 0.80     | U        | 1.0    | U    | 1.1    | U    |        |      |
| Sodium             | 29.8     | J        | 78.0     |          | 219    |      | 378    |      |        |      |
| Thallium           | 0.40     | U        | 0.50     |          | 0.50   | U    | 0.50   | U    |        |      |
| Vanadium           | 9.9      |          | 11.9     |          | 14.4   |      | 15.1   |      |        |      |
| Zinc               | 66.5     |          | 109      |          | 78.0   |      | 78.6   |      |        |      |
| Cyanide            | 0.10     | J        | 0.08     | J        | 1.0    |      | 0.50   |      |        |      |

## DATA QUALIFIER DEFINITIONS

For the purpose of defining the flagging nomenclature utilized in this document, the following code letters and associated definitions are provide:

- U Indicates the material was analyzed, but was not detected above the level of the associated value. The associated value is either the sample quantitation limit or the sample detection limit.
- J Indicates the associated value is an estimated quantity.
- R Indicates the data are unusable. (Note: The analyte may or may not be present.)
- UI Indicates the material was analyzed for, but was not detected. The associated value is an estimate and may be inaccurate or imprecise.
- E Indicates the reported value is estimated because of the presence of interferences. An explanatory note shall be included under Comments on the Cover Page (if the problem applies to all samples) or on the specific FORM I-IN (if it is an isolated problem).
- M Indicates duplicate injection precision is not met.
- N Indicates the spike sample recovery is not within control limits.
- S Indicates the reported value was determined by the Method of Standard Addition (MSA).
- W Indicates the post-digestion spike for furnace AA analysis is out of control limits (85%-115%), while sample absorbance is less than 50% of the spike absorbance.
- + Indicates the correlation coefficient for the MSA is less than 0.995.
- \* Indicates the duplicate analysis is not within control limits.

Note: Entering "S", "W" or "+" is mutually exclusive. No combination of these qualifiers can appear in the same field for an analyte.

QC EXCEPTION SUMMARY REPORT

CASE \SAB#: 26551  
 DATA SET: \_\_\_\_\_  
 LAB QC # \_\_\_\_\_  
 DATE: 11-18-98

SITE: Himco Dump (IN) MATRIX: SOIL  
 LAB: Data Chem CONC: \_\_\_\_\_  
 REVIEWED BY: Tonia Balicki-Shammo

WATER SAMPLE SPK: \_\_\_\_\_  
 WATER SAMPLE DUP: \_\_\_\_\_  
 SOIL SAMPLE SPK: \_\_\_\_\_  
 SOIL SAMPLE DUP: \_\_\_\_\_

| FORM 1    | FORM 2    | FORM 3        | FORM 3       | FORM 3      | FORM 3           | FORM 3          | FORM 4 | FORM 5        | FORM 6       | FORM 7 | FORM 7   | FORM 9                  | FORM 9               | FORM 6     | FORM 8      | FIELD | FIELD   | FIELD | FIELD   |          |                   |
|-----------|-----------|---------------|--------------|-------------|------------------|-----------------|--------|---------------|--------------|--------|----------|-------------------------|----------------------|------------|-------------|-------|---------|-------|---------|----------|-------------------|
| ELEMENT   | WGLD TDGE | INITIAL CALIB | CONTIN CALIB | CALIB BLANK | PREP WATER BLANK | PREP SOIL BLANK | ICE %R | SOIL SPIKE %R | SOIL DUP RFD | LCV AQ | LCV SOIL | SERIAL DILUTION AQUEOUS | SERIAL DILUTION SOIL | AQ DUP RFD | AQ SPIKE %R | BLANK | DUP RFD | BLANK | DUP RFD | CFAA DUP | CFAA ANALYT SPIKE |
| ALUMINUM  |           |               |              | 121.3       |                  |                 |        |               |              |        |          |                         |                      |            |             |       |         |       |         |          |                   |
| ANTIMONY  |           |               |              |             |                  |                 |        | 44.3          |              |        |          |                         |                      |            |             |       |         |       |         |          |                   |
| ARSENIC   |           |               |              |             |                  |                 |        |               |              |        |          |                         | 100.0 ✓              |            |             |       |         |       |         |          |                   |
| BARIUM    |           |               |              | 2.8         |                  |                 |        |               |              |        |          |                         |                      |            |             |       |         |       |         |          |                   |
| BERYLLIUM |           |               |              | -1.2        |                  |                 |        |               |              |        |          |                         |                      |            |             |       |         |       |         |          |                   |
| CADMIUM   |           |               |              |             |                  |                 |        |               | 200.0        |        |          |                         |                      |            |             |       |         |       |         |          |                   |
| CALCIUM   |           |               |              | 109.0       |                  |                 |        |               |              |        |          |                         | 12.9                 |            |             |       |         |       |         |          |                   |
| CHROMIUM  |           |               |              | 7.6         |                  |                 |        |               |              |        |          |                         | 44.9                 |            |             |       |         |       |         |          |                   |
| COBALT    |           |               |              |             | 359.7            |                 |        |               | 200.0 ✓      |        |          |                         |                      |            |             |       |         |       |         |          |                   |
| COPPER    |           |               |              | 5.4         |                  |                 |        |               | 41.4 ✓       |        |          |                         | 43.2                 |            |             |       |         |       |         |          |                   |
| IRON      |           |               |              | 54.4        |                  |                 |        |               |              |        |          |                         |                      |            |             |       |         |       |         |          |                   |
| LEAD      |           |               |              |             |                  |                 |        |               |              |        |          |                         |                      |            |             |       |         |       |         |          |                   |
| MAGNESIUM |           |               |              | 130.2       |                  |                 |        |               |              |        |          |                         | 18.3                 |            |             |       |         |       |         |          |                   |
| MANGANESE |           |               |              | 3.7         |                  |                 |        |               |              |        |          |                         |                      |            |             |       |         |       |         |          |                   |
| MERCURY   |           |               |              |             |                  |                 |        |               |              |        |          |                         |                      |            |             |       |         |       |         |          |                   |
| NICKEL    |           |               |              |             |                  |                 |        |               |              |        |          |                         |                      |            |             |       |         |       |         |          |                   |
| POTASSIUM |           |               |              | 851.8       |                  |                 |        |               | 41.1         |        |          |                         | 100.0                |            |             |       |         |       |         |          |                   |
| SELENIUM  |           |               |              | 2.4         |                  |                 |        |               |              |        |          |                         | 100.0                |            |             |       |         |       |         |          |                   |
| SILVER    |           |               |              |             |                  |                 |        |               |              |        |          |                         |                      |            |             |       |         |       |         |          |                   |
| SODIUM    |           |               |              | 13.4        |                  |                 |        |               |              |        |          |                         |                      |            |             |       |         |       |         |          |                   |
| THALLIUM  |           |               |              |             |                  |                 |        |               |              |        |          |                         |                      |            |             |       |         |       |         |          |                   |
| TIN       |           |               |              |             |                  |                 |        |               |              |        |          |                         |                      |            |             |       |         |       |         |          |                   |
| VANADIUM  |           |               |              | 5.1         |                  |                 |        |               |              |        |          |                         | 17.2                 |            |             |       |         |       |         |          |                   |
| ZINC      |           |               |              | 10.7        |                  |                 |        |               |              |        |          |                         | 38.5                 |            |             |       |         |       |         |          |                   |
| CYANIDE   |           |               |              | 0.121       | -                | 0.121           |        |               |              |        |          |                         |                      |            |             |       |         |       |         |          |                   |

TP 11-25-98



## ADMINISTRATIVE CASE NARRATIVE

Contract: 68-D5-0017  
Case: 26551  
SDG: MEBQC1

### Miscellaneous Comments:

The following cooler arrived at DCL on 10/13/98. No problems were noted:

Cooler No. C98-1121 arrived at 6°C.

The following cooler arrived at DCL on 10/17/98. No problems were noted:

Cooler No. C98-1161 arrived at 8°C.

A handwritten signature in black ink, appearing to be "Robert J. ...", is written over a horizontal line.

001



## CASE NARRATIVE

NOV 16 1998

Case #: 26551  
SDG #: MEBQC1  
DCL Set ID #: 98C-0242, 98C-0245  
November 9, 1998

### General Information

The samples in this SDG were analyzed by methodologies contained in ILM04.0 under contract 68-D5-0133. All concentration, analytical, and method qualifiers are defined in the SOW.

### Holding Times

All samples were prepared and analyzed within method-required holding times.

### Initial and Continuing Calibration

All initial and continuing calibration verification and blank analyses were performed within the designated frequency and recoveries of the verifications and concentrations of the blanks met method acceptance criteria.

### Preparation Blanks

The absolute value of all analyte concentrations in the preparation blank were lower than the Contract Required Detection Limit.

### ICP Interference Check Sample Analysis

Results for the interference check samples met method acceptance criteria.

### Matrix Spike Analysis

All matrix spike recoveries were within the limits of 75-125% with the exception of the Sb recovery. A post digestion spike was performed for Sb. Since all LCS recoveries met method criteria, this poor spike recoveries may be attributed to matrix interference.

### Matrix Duplicate Analysis

All matrix duplicate results met method acceptance criteria with the exception of Cd.

### Laboratory Control Sample Analysis

Results for the analyses of the solid LCS met method acceptance criteria.

### ICP Serial Dilution Analysis

All ICP Serial Dilution results met method acceptance criteria with the exception of Ca and Mg. The reported values for these analytes on Form 1 are therefore estimated because of the presence of interferences.

### Miscellaneous Comments

None.

  
Neil Edwards

Semivolatile Analysis Data - ECMQ3  
Tentatively Identified Compounds

CASE NO: 26593  
SDG NO: ECMMO

LABORATORY: IEA-NJ

| CAS NUMBER               | COMPOUND NAME | RT    | ESTIMATED CONCENTRATION | Q |
|--------------------------|---------------|-------|-------------------------|---|
| UNKNOWN                  |               | 4.19  | 6.000                   |   |
| PROPENE TRICHLORO ISOMER |               | 4.57  | 5.000                   |   |
| UNKNOWN                  |               | 4.64  | 25.000                  |   |
| PROPENE TRICHLORO ISOMER |               | 5.15  | 5.000                   |   |
| UNKNOWN                  |               | 5.44  | 7.000                   |   |
| UNKNOWN                  |               | 5.51  | 3.000                   |   |
| UNKNOWN                  |               | 5.79  | 2.000                   |   |
| UNKNOWN                  |               | 5.89  | 24.000                  |   |
| PROPENE TRICHLORO ISOMER |               | 5.97  | 100.000                 |   |
| UNKNOWN                  |               | 10.82 | 4.000                   |   |
| UNKNOWN ACID             |               | 21.23 | 3.000                   |   |

FILE NAME: ECMMO.SDG DATE: 11/19/98 TIME: 09:47 CADRE98

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Semivolatile Analysis Data - ECMQ4  
Tentatively Identified Compounds

CASE NO: 26593  
SDG NO: ECMMO

LABORATORY: IEA-NJ

| CAS NUMBER                          | COMPOUND NAME | RT    | ESTIMATED CONCENTRATION | Q |
|-------------------------------------|---------------|-------|-------------------------|---|
| UNKNOWN                             |               | 4.03  | 2.000                   |   |
| UNKNOWN                             |               | 4.34  | 3.000                   |   |
| UNKNOWN                             |               | 4.63  | 6.000                   |   |
| UNKNOWN                             |               | 7.55  | 2.000                   |   |
| UNKNOWN                             |               | 8.05  | 3.000                   |   |
| UNKNOWN                             |               | 11.53 | 8.000                   |   |
| 2(3H)-BENZOTHAZOLONE                |               | 13.62 | 15.000                  |   |
| PENTOBARBITAL                       |               | 14.21 | 3.000                   |   |
| UNKNOWN                             |               | 15.92 | 7.000                   |   |
| PHENOBARBITAL                       |               | 16.33 | 8.000                   |   |
| BICYCLO[2.2.1]HEPT-5-ENE-2,3-DICARB |               | 16.45 | 47.000                  |   |
| UNKNOWN KETONE                      |               | 18.51 | 7.000                   |   |
| UNKNOWN                             |               | 19.86 | 3.000                   |   |
| UNKNOWN                             |               | 20.47 | 3.000                   |   |

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Semivolatile Analysis Data - SBLKH3  
Tentatively Identified Compounds

CASE NO: 26593  
SDG NO: ECMMO

LABORATORY: IEA-NJ

| CAS NUMBER                | COMPOUND NAME | RT   | ESTIMATED CONCENTRATION | Q |
|---------------------------|---------------|------|-------------------------|---|
| PROPENE, TRICHLORO ISOMER |               | 5.93 | 2.000                   |   |

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Semivolatile Analysis Data - ECMQ0  
Tentatively Identified Compounds

CASE NO: 26593  
SDG NO: ECMM0

LABORATORY: IEA-NJ

| CAS NUMBER | COMPOUND NAME            | RT    | ESTIMATED CONCENTRATION | Q |
|------------|--------------------------|-------|-------------------------|---|
|            | PROPENE TRICHLORO ISOMER | 4.56  | 3.000                   |   |
|            | UNKNOWN                  | 4.64  | 8.000                   |   |
|            | PROPENE TRICHLORO ISOMER | 5.15  | 3.000                   |   |
|            | UNKNOWN                  | 5.83  | 4.000                   |   |
|            | PROPENE TRICHLORO ISOMER | 5.97  | 55.000                  |   |
|            | UNKNOWN                  | 7.55  | 7.000                   |   |
|            | PHENOL, P-TERT-BUTYL-    | 9.49  | 2.000                   |   |
|            | UNKNOWN                  | 11.64 | 3.000                   |   |
|            | 2(3H)-BENZOTHAZOLONE     | 13.67 | 64.000                  |   |
|            | UNKNOWN                  | 16.43 | 2.000                   |   |
|            | UNKNOWN                  | 20.70 | 2.000                   |   |
|            | UNKNOWN                  | 21.23 | 4.000                   |   |

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Semivolatile Analysis Data - ECMQ2  
Tentatively Identified Compounds

CASE NO: 26593  
SDG NO: ECMM0

LABORATORY: IEA-NJ

| CAS NUMBER | COMPOUND NAME                    | RT    | ESTIMATED CONCENTRATION | Q |
|------------|----------------------------------|-------|-------------------------|---|
|            | UNKNOWN                          | 3.98  | 130.000                 |   |
|            | UNKNOWN                          | 4.11  | 130.000                 |   |
|            | UNKNOWN                          | 4.25  | 1000.000                |   |
|            | UNKNOWN                          | 4.52  | 190.000                 |   |
|            | PROPENE TRICHLORO ISOMER         | 4.57  | 25.000                  |   |
|            | UNKNOWN KETONE                   | 4.63  | 31.000                  |   |
|            | UNKNOWN ALCOHOL                  | 4.70  | 27.000                  |   |
|            | UNKNOWN                          | 4.79  | 21.000                  |   |
|            | UNKNOWN                          | 4.85  | 10.000                  |   |
|            | UNKNOWN                          | 5.00  | 12.000                  |   |
|            | PROPENE TRICHLORO ISOMER         | 5.15  | 13.000                  |   |
|            | UNKNOWN                          | 5.20  | 37.000                  |   |
|            | UNKNOWN AROMATIC                 | 5.44  | 15.000                  |   |
|            | UNKNOWN                          | 5.79  | 8.000                   |   |
|            | UNKNOWN                          | 5.83  | 6.000                   |   |
|            | UNKNOWN                          | 5.88  | 16.000                  |   |
|            | PROPENE TRICHLORO ISOMER         | 5.97  | 50.000                  |   |
|            | UNKNOWN                          | 6.12  | 1300.000                |   |
|            | UNKNOWN                          | 6.31  | 60.000                  |   |
|            | UNKNOWN ALCOHOL                  | 6.84  | 20.000                  |   |
|            | CYCLOPENTASILOXANE, DECAMETHYL-  | 7.56  | 320.000                 |   |
|            | UNKNOWN                          | 7.70  | 12.000                  |   |
|            | CYCLOHEXASILOXANE, DODECAMETHYL- | 9.30  | 26.000                  |   |
|            | UNKNOWN                          | 9.43  | 16.000                  |   |
|            | UNKNOWN                          | 10.70 | 46.000                  |   |
|            | UNKNOWN                          | 11.06 | 6.000                   |   |
|            | UNKNOWN                          | 12.08 | 9.000                   |   |
|            | UNKNOWN                          | 20.48 | 17.000                  |   |
|            | UNKNOWN                          | 20.80 | 55.000                  |   |
|            | UNKNOWN                          | 21.28 | 16.000                  |   |

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Semivolatile Analysis Data - ECMM2  
Tentatively Identified Compounds

CASE NO: 26593  
SDG NO: ECMM0

LABORATORY: IEA-NJ

| CAS NUMBER | COMPOUND NAME              | RT   | ESTIMATED CONCENTRATION | Q |
|------------|----------------------------|------|-------------------------|---|
|            | PROPENE TRICHLORO ISOMER   | 4.57 | 3.000                   |   |
|            | ALDOL CONDENSATION PRODUCT | 4.64 | 7.000                   |   |
|            | PROPENE TRICHLORO ISOMER   | 5.14 | 4.000                   |   |
|            | UNKNOWN ALCOHOL            | 5.43 | 3.000                   |   |
|            | UNKNOWN                    | 5.89 | 20.000                  |   |
|            | PROPENE TRICHLORO ISOMER   | 5.98 | 70.000                  |   |

FILE NAME: ECMM0.SDG DATE: 11/19/98 TIME: 09:47 CADRE98

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Semivolatile Analysis Data - ECMM5  
Tentatively Identified Compounds

CASE NO: 26593  
SDG NO: ECMM0

LABORATORY: IEA-NJ

| CAS NUMBER | COMPOUND NAME            | RT    | ESTIMATED CONCENTRATION | Q |
|------------|--------------------------|-------|-------------------------|---|
|            | UNKNOWN                  | 3.97  | 69.000                  |   |
|            | UNKNOWN                  | 4.25  | 750.000                 |   |
|            | UNKNOWN                  | 4.80  | 12.000                  |   |
|            | UNKNOWN                  | 4.91  | 6.000                   |   |
|            | UNKNOWN                  | 5.20  | 17.000                  |   |
|            | UNKNOWN                  | 5.44  | 10.000                  |   |
|            | PROPENE TRICHLORO ISOMER | 5.97  | 6.000                   |   |
|            | UNKNOWN                  | 6.13  | 1200.000                |   |
|            | UNKNOWN                  | 6.31  | 53.000                  |   |
|            | UNKNOWN ALCOHOL          | 6.84  | 14.000                  |   |
|            | UNKNOWN                  | 7.35  | 14.000                  |   |
|            | UNKNOWN                  | 7.56  | 300.000                 |   |
|            | UNKNOWN KETONE           | 7.68  | 13.000                  |   |
|            | UNKNOWN                  | 8.77  | 8.000                   |   |
|            | UNKNOWN                  | 9.01  | 7.000                   |   |
|            | UNKNOWN                  | 9.30  | 15.000                  |   |
|            | UNKNOWN                  | 9.41  | 7.000                   |   |
|            | UNKNOWN                  | 10.68 | 66.000                  |   |
|            | UNKNOWN                  | 11.06 | 7.000                   |   |
|            | UNKNOWN ACID             | 11.92 | 8.000                   |   |
|            | UNKNOWN                  | 12.07 | 14.000                  |   |
|            | UNKNOWN KETONE           | 13.20 | 6.000                   |   |
|            | 2(3H)-BENZOTHIAZOLONE    | 13.65 | 58.000                  |   |
|            | UNKNOWN                  | 17.58 | 6.000                   |   |
|            | UNKNOWN ACID             | 18.55 | 5.000                   |   |
|            | UNKNOWN                  | 20.44 | 10.000                  |   |
|            | UNKNOWN                  | 20.69 | 7.000                   |   |
|            | UNKNOWN ACID             | 21.24 | 10.000                  |   |
|            | UNKNOWN ACID             | 21.34 | 4.000                   |   |

FILE NAME: ECMM0.SDG DATE: 11/19/98 TIME: 09:47 CADRE98

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Volatle Analysis Data - ECMM5  
Tentatively Identified Compounds

CASE NO: 26593  
SDG NO: ECMMO

LABORATORY: IEA-NJ

| CAS NUMBER | COMPOUND NAME        | RT   | ESTIMATED CONCENTRATION | Q |
|------------|----------------------|------|-------------------------|---|
|            | ETHANE, 1,1'-OXYBIS- | 3.67 | 34.000                  |   |

FILE NAME: ECMMO.SDG DATE: 11/19/98 TIME: 09:47 CADRE98 PAGE: 1

Volatle Analysis Data - ECMQ0  
Tentatively Identified Compounds

CASE NO: 26593  
SDG NO: ECMMO

LABORATORY: IEA-NJ

| CAS NUMBER | COMPOUND NAME        | RT   | ESTIMATED CONCENTRATION | Q |
|------------|----------------------|------|-------------------------|---|
|            | ETHANE, 1,1'-OXYBIS- | 3.69 | 34.000                  |   |

FILE NAME: ECMMO.SDG DATE: 11/19/98 TIME: 09:47 CADRE98 PAGE: 2

Volatle Analysis Data - ECMQ4  
Tentatively Identified Compounds

CASE NO: 26593  
SDG NO: ECMMO

LABORATORY: IEA-NJ

| CAS NUMBER | COMPOUND NAME        | RT   | ESTIMATED CONCENTRATION | Q |
|------------|----------------------|------|-------------------------|---|
|            | ETHANE, 1,1'-OXYBIS- | 3.64 | 72.000                  |   |

FILE NAME: ECMMO.SDG DATE: 11/19/98 TIME: 09:47 CADRE98 PAGE: 3

Volatle Analysis Data - ECMQ4  
Tentatively Identified Compounds

CASE NO: 26593  
SDG NO: ECMMO

LABORATORY: IEA-NJ

| CAS NUMBER | COMPOUND NAME        | RT   | ESTIMATED CONCENTRATION | Q |
|------------|----------------------|------|-------------------------|---|
|            | ETHANE, 1,1'-OXYBIS- | 3.66 | 26.000                  |   |

FILE NAME: ECMMO.SDG DATE: 11/19/98 TIME: 09:47 CADRE98 PAGE: 4

Semivolatle Analysis Data - SBLKH2  
Tentatively Identified Compounds

CASE NO: 26593  
SDG NO: ECMMO

LABORATORY: IEA-NJ

| CAS NUMBER | COMPOUND NAME | RT    | ESTIMATED CONCENTRATION | Q |
|------------|---------------|-------|-------------------------|---|
|            | UNKNOWN ACID  | 10.22 | 3.000                   |   |
|            | UNKNOWN ACID  | 10.42 | 4.000                   |   |
|            | UNKNOWN ACID  | 12.54 | 2.000                   |   |

FILE NAME: ECMMO.SDG DATE: 11/19/98 TIME: 09:47 CADRE98 PAGE: 5

CADRE Data Qualifier Sheet

Qualifiers

Data Qualifier Definitions

- U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- J The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.
- UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the action limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
- N The analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification.
- NJ The analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification and the associated numerical value represents its approximate concentration.
- R The data are unusable. (The compound may or may not be present)
- H Sample result is estimated and biased high.
- L Sample result is estimated and biased low.

Case Number : 26593  
Site Name: HIMCO DUMP (IN)

SDG Number: ECMM0  
Laboratory: IEA

12. ADDITIONAL INFORMATION

None.

Reviewed By: Thomas Sedlacek Lockheed Martin ESAT  
Date: December 11, 1998

Case Number : 26593  
 Site Name: HIMCO DUMP (IN)

SDG Number: ECMM0  
 Laboratory: IEA

2,4,5-Trichlorophenol, 2-Chloronaphthalene, 2-Nitroaniline,  
 Dimethylphthalate, Acenaphthylene, 2,6-Dinitrotoluene,  
 3-Nitroaniline, Acenaphthene, 2,4-Dinitrophenol, 4-Nitrophenol,  
 Dibenzofuran, 2,4-Dinitrotoluene, Diethylphthalate,  
 4-Chlorophenyl-phenylether, Fluorene, 4-Nitroaniline,  
 Di-n-octylphthalate, Benzo(b)fluoranthene, Benzo(k)fluoranthene,  
 Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Dibenz(a,h)anthracene,  
 Benzo(g,h,i)perylene

ECMQ2

Di-n-octylphthalate, Benzo(b)fluoranthene, Benzo(k)fluoranthene,  
 Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Dibenz(a,h)anthracene,  
 Benzo(g,h,i)perylene,

COMPOUND IDENTIFICATION

After reviewing the mass spectra and chromatograms it appears that all VOA, SVOA, and Pesticide/PCB compounds were properly identified.

10. COMPOUND QUANTITATION AND REPORTED DETECTION LIMITS

The following volatile samples have analyte concentrations below the quantitation limit (CRQL). All results below the CRQL are qualified "J".

ECMM4, ECMQ4  
 1,1-Dichloroethane

VBLKE2  
 Methylene Chloride

The following semivolatile samples have analyte concentrations below the quantitation limit (CRQL). All results below the CRQL are qualified "J"

ECMM0, ECMQ4, ECMR1  
 bis(2-Ethylhexyl)phthalate

ECMM4, ECMM5RE, ECMQ0  
 Diethylphthalate

ECMM5  
 Dimethylphthalate

11. SYSTEM PERFORMANCE

GC/MS baseline indicated acceptable performance. The GC baseline for the pesticide analysis was acceptable.

Reviewed By: Thomas Sedlacek Lockheed Martin ESAT  
 Date: December 11, 1998

Case Number : 26593  
 Site Name: HIMCO DUMP (IN)

SDG Number: ECMM0  
 Laboratory: IEA

#### 6. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

No problems found for this qualification.

#### 7. FIELD BLANK AND FIELD DUPLICATE

According to the chain-of-custody the following as field duplicate pair ECMQ5 and ECMQ9, ECMM5 and ECMQ0. Sample ECMQ5 was not analyzed with the data set. The lab did not report hits in any of the samples analyzed.

#### 8. INTERNAL STANDARDS

The following semivolatiles samples have internal standard retention times outside criteria. Hits are flagged "J" and non-detects are flagged "UJ"

##### ECMQ2RE

Pyrene, Butylbenzylphthalate, 3,3'-Dichlorobenzidine,  
 Benzo(a)anthracene, Chrysene, bis(2-Ethylhexyl)phthalate,  
 Di-n-octylphthalate, Benzo(b)fluoranthene, Benzo(k)fluoranthene,  
 Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Dibenz(a,h)anthracene,  
 Benzo(g,h,i)perylene

The following semivolatiles samples have internal standard area counts that are outside the lower limit of primary criteria. Hits are qualified "J" and non-detects are qualified "UJ".

##### ECMM5

Pyrene, Butylbenzylphthalate, 3,3'-Dichlorobenzidine,  
 Benzo(a)anthracene, Chrysene, bis(2-Ethylhexyl)phthalate

##### ECMQ2

Hexachlorocyclopentadiene, 2,4,6-Trichlorophenol,  
 2,4,5-Trichlorophenol, 2-Chloronaphthalene, 2-Nitroaniline,  
 Dimethylphthalate, Acenaphthylene, 2,6-Dinitrotoluene,  
 3-Nitroaniline, Acenaphthene, 2,4-Dinitrophenol, 4-Nitrophenol,  
 Dibenzofuran, 2,4-Dinitrotoluene, Diethylphthalate,  
 4-Chlorophenyl-phenylether, Fluorene, 4-Nitroaniline, Pyrene,  
 Butylbenzylphthalate, 3,3'-Dichlorobenzidine,  
 Benzo(a)anthracene, Chrysene, bis(2-Ethylhexyl)phthalate

The following semivolatiles samples have internal standard area counts outside expanded criteria. Hits are qualified "J" and non-detects are qualified "R".

##### ECMM5

Hexachlorocyclopentadiene, 2,4,6-Trichlorophenol,

Reviewed By: Thomas Sedlacek Lockheed Martin ESAT

Date: December 11, 1998

Case Number : 26593  
Site Name: HIMCO DUMP (IN)

SDG Number: ECMM0  
Laboratory: IEA

4-Chloroaniline

ECMM0, ECMM0MS, ECMM0MSD, ECMM2, ECMM4, ECMM5  
ECMM5RE, ECMQ0, ECMQ2, ECMQ2RE, ECMQ3, ECMQ4  
SBLKH2, SBLKH6

Hexachlorobutadiene

ECMM0, ECMM0MS, ECMM0MSD, ECMM4, ECMM5RE, ECMQ2RE  
SBLKH6

Hexachlorocyclopentadiene

ECMM5RE, ECMQ2RE, SBLKH6

Di-n-butylphthalate

ECMM2, ECMM5, ECMQ0, ECMQ2, ECMQ3, ECMQ4  
SBLKH2

4. BLANKS

No problems found for this qualification.

SYSTEM MONITORING COMPOUND AND SURROGATE RECOVERY

The following semivolatile samples have two or more base/neutral surrogate recoveries above the upper limit of the criteria window. Hits are biased high and qualified "J" and non-detects are not flagged.

ECMM5,

The following semivolatile samples have two or more acid surrogate recoveries above the upper limit of the criteria window. Hits are biased high and qualified "J" and non-detects are not flagged.

ECMM5, ECMQ2

The following semivolatile samples have one base/neutral surrogate recoveries above the upper limit of the criteria window. No action need be taken.

ECMQ2

The following semivolatile samples have one acid surrogate recoveries above the upper limit of the criteria window. Because only one surrogate is out of control no action need be taken.

ECMM2, ECMM0, ECMM0MS

Case Number : 26593  
 Site Name: HIMCO DUMP (IN)

SDG Number: ECMM0  
 Laboratory: IEA

### 1. HOLDING TIME

The following preserved volatile water samples are outside primary hold time criteria. Hits are qualified "J" and non-detects are qualified "UJ". Results are biased low.

ECMM1, ECMM3, ECMQ1

The following semivolatile water samples are outside primary extraction holding time criteria. Hits are qualified "J" and non-detects are qualified "UJ". Results are biased low.

ECMM5RE, ECMQ2RE

### 2. GC/MS TUNING AND GC INSTRUMENT PERFORMANCE

No problems found for this qualification.

### 3. CALIBRATION

The following volatile samples are associated with a continuing calibration whose corresponding initial calibration has percent relative standard deviation (%RSD) outside primary criteria. Hits are qualified "J" and non-detects are flagged "UJ".

Bromomethane, 2-Butanone

ECMM0, ECMM0MS, ECMM0MSD, ECMM1, ECMM2, ECMM3  
 ECMM4, ECMM5, ECMQ0, ECMQ1, ECMQ2, ECMQ3  
 ECMQ4, VBLKE2, VBLKE5, VBLKE7, VHBLKE2

The following volatile samples are associated with a continuing calibration percent difference (%D) outside primary criteria. Hits are qualified "J" and non-detects are qualified "UJ".

2-Butanone

ECMM2, ECMM3, ECMM4, VBLKE5

1,1,2,2-Tetrachloroethane

ECMM0, ECMM0MS, ECMM0MSD, ECMM1, ECMM5, ECMQ0  
 ECMQ1, ECMQ2, ECMQ3, ECMQ4, VBLKE2, VBLKE7  
 VHBLKE2

The following semivolatile samples are associated with a continuing calibration percent difference (%D) outside primary criteria. Hits are qualified "J" and non-detects are qualified "UJ".

Reviewed By: Thomas Sedlacek Lockheed Martin ESAT  
 Date: December 11, 1998

Case Number : 26593  
Site Name: HIMCO DUMP (IN)

SDG Number: ECMM0  
Laboratory: IEA

Below is a summary of the out-of-control audits and the possible effects on the data for this case:

Fifteen (15) water samples, numbered ECMM0 through ECMM5, ECMQ0 through ECMQ4, ECMQ5 and ECMR1, were collected on October 1, 2, 19, 20, 21 and 22, 1998. The lab received the samples on October 20, 21, 22, 23, and 24, 1998 in good condition. All samples were analyzed for the full list of volatile and semivolatile organic analytes with the exception of ECMQ1, ECMM3 and ECMM1 which are trip blanks and only analyzed for volatiles.

According to the chain-of-custody the following are field duplicate pairs: ECMQ5 and ECMQ9, ECMM5 and ECMQ0.

Reviewed By: Thomas Sedlacek Lockheed Martin ESAT  
Date: December 11, 1998

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION V

DATE: December 11, 1998

SUBJECT: Review of Data  
Received for Review on Nov. 16, 1998

FROM: Stephen L. Ostrodka, Chief (SRT-4J)  
Superfund Technical Support Section

*per Steve Ostrodka  
Richard L Byrnie  
12/14/98*

TO: Data User: USACE

We have reviewed the data for the following case:

SITE NAME: HIMCO DUMP (IN)

CASE NUMBER: 26593 SDG NUMBER: ECMM0

Number and Type of Samples: 15 (water)

Sample Numbers: ECMM0-5, ECMQ0-4,9, ECMR1

Laboratory: IEA Hrs. for Review: 15.0 +

Following are our findings:

*The data are acceptable and reliable with the qualifications described in the attached narrative  
Richard L Byrnie*

CC: Cecilia Moore  
Region 5 TPO  
Mail Code: SM-5J

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION V

ESD Central Regional Laboratory  
Data Tracking Form for Contract Samples

Data Set No: \_\_\_\_\_ CERCLIS No: IN  
Case No: 26593 Site Name Location: Hines Dump  
Contractor or EPA Lab: AEN(IEA) Data User: USACE  
No. of Samples: 20 Date Sampled or Data Received: 11-9-98

Have Chain-of-Custody records been received? Yes  No   
Have traffic reports or packing lists been received? Yes  No   
If no, are traffic report or packing list numbers written on the chain-of-custody record? Yes  No   
If no, which traffic report or packing list numbers are missing?  
\_\_\_\_\_  
\_\_\_\_\_

Are basic data forms in? Yes 20<sup>rs</sup> No \_\_\_\_\_  
No of samples claimed: 20 No. of samples received: 20  
Received by: Lynette Burnett Date: 11-9-98  
Received by LSSS: Lynette Burnett Date: 11-9-98  
Review started: 11-10-98 Reviewer Signature: Stephanie Tobin  
Total time spent on review: 15 hrs Date review completed: 11-16-  
Copied by: Lynette Burnett Date: 12-15-98  
Mailed to user by: Lynette Burnett Date: 12-15-98

**DATA USER:**

Please fill in the blanks below and return this form to:  
Sylvia Griffen, Data mgmt. Coordinator, Region V, 5SCRL

Data received by: \_\_\_\_\_ Date: \_\_\_\_\_  
Data review received by: \_\_\_\_\_ Date: \_\_\_\_\_

Inorganic Data Complete [ ] Suitable for Intended Purpose [ ]  if ( )  
Organic Data Complete [ ] Suitable for Intended Purpose [ ]  if ( )  
Dioxin Data Complete [ ] Suitable for Intended Purpose [ ]  if ( )  
SAS Data Complete [ ] Suitable for Intended Purpose [ ]  if ( )

**PROBLEMS:** Please indicate reasons why data are not suitable for your uses.  
\_\_\_\_\_  
\_\_\_\_\_

Received by Data Mgmt. Coordinator for Files. Data: \_\_\_\_\_

Case #: 26593  
 Site: HIMCO DUMP, ELKHART  
 Lab.: IEANJ  
 Reviewer: S. Tobin  
 Date: 11/16/98

| Sample Number:             | ECMN4    | ECMN7    |        |      |        |      |        |      |        |      |
|----------------------------|----------|----------|--------|------|--------|------|--------|------|--------|------|
| Sampling Location:         | SB14-0.5 | SB13-0.5 |        |      |        |      |        |      |        |      |
| Matrix:                    | Soil     | Soil     |        |      |        |      |        |      |        |      |
| Units:                     | ug/kg    | ug/kg    |        |      |        |      |        |      |        |      |
| Date Sampled:              | 10/20/98 | 10/20/98 |        |      |        |      |        |      |        |      |
| %Moisture:                 | 18       | 11       |        |      |        |      |        |      |        |      |
| PH:                        | 6.8      | 6.6      |        |      |        |      |        |      |        |      |
| Dilution Factor:           | 1.0      | 1.0      |        |      |        |      |        |      |        |      |
| Semivolatile Compound      | Result   | Flag     | Result | Flag | Result | Flag | Result | Flag | Result | Flag |
| Acenaphthene               | 400      | U        | 370    | U    |        |      |        |      |        |      |
| 2,4-Dinitrophenol          | 1000     | U        | 930    | U    |        |      |        |      |        |      |
| 4-Nitrophenol              | 1000     | U        | 930    | U    |        |      |        |      |        |      |
| Dibenzofuran               | 400      | U        | 370    | U    |        |      |        |      |        |      |
| 2,4-Dinitrotoluene         | 400      | U        | 370    | U    |        |      |        |      |        |      |
| Diethylphthalate           | 400      | U        | 370    | U    |        |      |        |      |        |      |
| 4-Chlorophenyl-phenylether | 400      | U        | 370    | U    |        |      |        |      |        |      |
| Fluorene                   | 400      | U        | 370    | U    |        |      |        |      |        |      |
| 4-Nitroaniline             | 1000     | U        | 930    | U    |        |      |        |      |        |      |
| 4,6-Dinitro-2-methylphenol | 1000     | U        | 930    | U    |        |      |        |      |        |      |
| N-Nitrosodiphenylamine     | 400      | U        | 370    | U    |        |      |        |      |        |      |
| 4-Bromophenyl-phenylether  | 400      | U        | 370    | U    |        |      |        |      |        |      |
| Hexachlorobenzene          | 400      | U        | 370    | U    |        |      |        |      |        |      |
| Pentachlorophenol          | 1000     | U        | 930    | U    |        |      |        |      |        |      |
| Phenanthrene               | 400      | U        | 370    | U    |        |      |        |      |        |      |
| Anthracene                 | 400      | U        | 370    | U    |        |      |        |      |        |      |
| Carbazole                  | 400      | U        | 370    | U    |        |      |        |      |        |      |
| Di-n-butylphthalate        | 400      | U        | 370    | U    |        |      |        |      |        |      |
| Fluoranthene               | 59       | J        | 100    | J    |        |      |        |      |        |      |
| Pyrene                     | 64       | J        | 110    | J    |        |      |        |      |        |      |
| Butylbenzylphthalate       | 54       | J        | 370    | U    |        |      |        |      |        |      |
| 3,3'-Dichlorobenzidine     | 400      | U        | 370    | U    |        |      |        |      |        |      |
| Benzo(a)anthracene         | 41       | J        | 64     | J    |        |      |        |      |        |      |
| Chrysene                   | 59       | J        | 72     | J    |        |      |        |      |        |      |
| bis(2-Ethylhexyl)phthalate | 190      | J        | 160    | J    |        |      |        |      |        |      |
| Di-n-octylphthalate        | 400      | U        | 370    | U    |        |      |        |      |        |      |
| Benzo(b)fluoranthene       | 82       | J        | 93     | J    |        |      |        |      |        |      |
| Benzo(k)fluoranthene       | 400      | U        | 370    | U    |        |      |        |      |        |      |
| Benzo(a)pyrene             | 53       | J        | 66     | J    |        |      |        |      |        |      |
| Indeno(1,2,3-cd)pyrene     | 48       | J        | 57     | J    |        |      |        |      |        |      |
| Dibenz(a,h)anthracene      | 400      | U        | 370    | U    |        |      |        |      |        |      |
| Benzo(g,h,i)perylene       | 86       | J        | 81     | J    |        |      |        |      |        |      |

Analytical Results (Qualified Data)

Case #: 26593  
 Site: HIMCO DUMP, ELKHART  
 Lab.: IEANJ  
 Reviewer: S. Tobin  
 Date: 11/16/98

| Sample Number:             | ECMN4    | ECMN7    |        |      |        |      |        |      |        |      |
|----------------------------|----------|----------|--------|------|--------|------|--------|------|--------|------|
| Sampling Location:         | SB14-0.5 | SB13-0.5 |        |      |        |      |        |      |        |      |
| Matrix:                    | Soil     | Soil     |        |      |        |      |        |      |        |      |
| Units:                     | ug/kg    | ug/kg    |        |      |        |      |        |      |        |      |
| Date Sampled:              | 10/20/98 | 10/20/98 |        |      |        |      |        |      |        |      |
| %Moisture:                 | 18       | 11       |        |      |        |      |        |      |        |      |
| PH:                        | 6.8      | 6.6      |        |      |        |      |        |      |        |      |
| Dilution Factor:           | 1.0      | 1.0      |        |      |        |      |        |      |        |      |
| Semivolatle Compound       | Result   | Flag     | Result | Flag | Result | Flag | Result | Flag | Result | Flag |
| Phenol                     | 400      | U        | 370    | U    |        |      |        |      |        |      |
| bis(2-Chloroethyl) ether   | 400      | U        | 370    | U    |        |      |        |      |        |      |
| 2-Chlorophenol             | 400      | U        | 370    | U    |        |      |        |      |        |      |
| 1,3-Dichlorobenzene        | 400      | U        | 370    | U    |        |      |        |      |        |      |
| 1,4-Dichlorobenzene        | 400      | U        | 370    | U    |        |      |        |      |        |      |
| 1,2-Dichlorobenzene        | 400      | U        | 370    | U    |        |      |        |      |        |      |
| 2-Methylphenol             | 400      | U        | 370    | U    |        |      |        |      |        |      |
| 2,2'-oxybis(1-chloropropan | 400      | U        | 370    | U    |        |      |        |      |        |      |
| 4-Methylphenol             | 400      | U        | 370    | U    |        |      |        |      |        |      |
| N-Nitroso-di-n-propylamine | 400      | U        | 370    | U    |        |      |        |      |        |      |
| Hexachloroethane           | 400      | U        | 370    | U    |        |      |        |      |        |      |
| Nitrobenzene               | 400      | U        | 370    | U    |        |      |        |      |        |      |
| Isophorone                 | 400      | U        | 370    | U    |        |      |        |      |        |      |
| 2-Nitrophenol              | 400      | U        | 370    | U    |        |      |        |      |        |      |
| 2,4-Dimethylphenol         | 400      | U        | 370    | U    |        |      |        |      |        |      |
| bis(2-Chloroethoxy)methane | 400      | U        | 370    | U    |        |      |        |      |        |      |
| 2,4-Dichlorophenol         | 400      | U        | 370    | U    |        |      |        |      |        |      |
| 1,2,4-Trichlorobenzene     | 400      | U        | 370    | U    |        |      |        |      |        |      |
| Naphthalene                | 400      | U        | 370    | U    |        |      |        |      |        |      |
| 4-Chloroaniline            | 400      | U        | 370    | U    |        |      |        |      |        |      |
| Hexachlorobutadiene        | 400      | U        | 370    | U    |        |      |        |      |        |      |
| 4-Chloro-3-methylphenol    | 400      | U        | 370    | U    |        |      |        |      |        |      |
| 2-Methylnaphthalene        | 400      | U        | 370    | U    |        |      |        |      |        |      |
| Hexachlorocyclopentadiene  | 400      | U        | 370    | U    |        |      |        |      |        |      |
| 2,4,6-Trichlorophenol      | 400      | U        | 370    | U    |        |      |        |      |        |      |
| 2,4,5-Trichlorophenol      | 1000     | U        | 930    | U    |        |      |        |      |        |      |
| 2-Chloronaphthalene        | 400      | U        | 370    | U    |        |      |        |      |        |      |
| 2-Nitroaniline             | 1000     | U        | 930    | U    |        |      |        |      |        |      |
| Dimethylphthalate          | 400      | U        | 370    | U    |        |      |        |      |        |      |
| Acenaphthylene             | 400      | U        | 370    | U    |        |      |        |      |        |      |
| 2,6-Dinitrotoluene         | 400      | U        | 370    | U    |        |      |        |      |        |      |
| 3-Nitroaniline             | 1000     | U        | 930    | U    |        |      |        |      |        |      |

Case #: 26593                      SDG: ECML0  
 Site:                                HIMCO DUMP, ELKHART  
 Lab. :                                IEANJ  
 Reviewer:                          S. Tobin  
 Date:                                11/16/98

| Sample Number:             | ECMM7    | ECMNO    | ECMN1    | ECMN2    | ECMN3    |      |        |      |        |      |
|----------------------------|----------|----------|----------|----------|----------|------|--------|------|--------|------|
| Sampling Location:         | SB06-2   | SB10-0.5 | SB10-10  | SB10-2   | SB10-6   |      |        |      |        |      |
| Matrix:                    | Soil     | Soil     | Soil     | Soil     | Soil     |      |        |      |        |      |
| Units:                     | ug/kg    | ug/kg    | ug/kg    | ug/kg    | ug/kg    |      |        |      |        |      |
| Date Sampled:              | 10/19/98 | 10/20/98 | 10/20/98 | 10/20/98 | 10/20/98 |      |        |      |        |      |
| %Moisture:                 | 6        | 8        | 8        | 4        | 6        |      |        |      |        |      |
| PH:                        | 5.5      | 5.4      | 5.1      | 4.9      | 4.7      |      |        |      |        |      |
| Dilution Factor:           | 1.0      | 1.0      | 1.0      | 1.0      | 1.0      |      |        |      |        |      |
| Semivolatile Compound      | Result   | Flag     | Result   | Flag     | Result   | Flag | Result | Flag | Result | Flag |
| Acenaphthene               | 350      | U        | 360      | U        | 360      | U    | 340    | U    | 350    | U    |
| 2,4-Dinitrophenol          | 880      | U        | 900      | U        | 900      | U    | 860    | U    | 880    | U    |
| 4-Nitrophenol              | 880      | U        | 900      | U        | 900      | U    | 860    | U    | 880    | U    |
| Dibenzofuran               | 350      | U        | 360      | U        | 360      | U    | 340    | U    | 350    | U    |
| 2,4-Dinitrotoluene         | 350      | U        | 360      | U        | 360      | U    | 340    | U    | 350    | U    |
| Diethylphthalate           | 350      | U        | 360      | U        | 360      | U    | 340    | U    | 350    | U    |
| 4-Chlorophenyl-phenylether | 350      | U        | 360      | U        | 360      | U    | 340    | U    | 350    | U    |
| Fluorene                   | 350      | U        | 360      | U        | 360      | U    | 340    | U    | 350    | U    |
| 4-Nitroaniline             | 880      | U        | 900      | U        | 900      | U    | 860    | U    | 880    | U    |
| 4,6-Dinitro-2-methylphenol | 880      | U        | 900      | U        | 900      | U    | 860    | U    | 880    | U    |
| N-Nitrosodiphenylamine     | 350      | U        | 360      | U        | 360      | U    | 340    | U    | 350    | U    |
| 4-Bromophenyl-phenylether  | 350      | U        | 360      | U        | 360      | U    | 340    | U    | 350    | U    |
| Hexachlorobenzene          | 350      | U        | 360      | U        | 360      | U    | 340    | U    | 350    | U    |
| Pentachlorophenol          | 880      | U        | 900      | U        | 900      | U    | 860    | U    | 880    | U    |
| Phenanthrene               | 350      | U        | 360      | U        | 360      | U    | 340    | U    | 350    | U    |
| Anthracene                 | 350      | U        | 360      | U        | 360      | U    | 340    | U    | 350    | U    |
| Carbazole                  | 350      | U        | 360      | U        | 360      | U    | 340    | U    | 350    | U    |
| Di-n-butylphthalate        | 350      | U        | 360      | U        | 360      | U    | 340    | U    | 350    | U    |
| Fluoranthene               | 350      | U        | 360      | U        | 360      | U    | 340    | U    | 350    | U    |
| Pyrene                     | 350      | U        | 360      | U        | 360      | U    | 340    | U    | 350    | U    |
| Butylbenzylphthalate       | 350      | U        | 360      | U        | 360      | U    | 340    | U    | 350    | U    |
| 3,3'-Dichlorobenzidine     | 350      | U        | 360      | U        | 360      | U    | 340    | U    | 350    | U    |
| Benzo(a)anthracene         | 350      | U        | 360      | U        | 360      | U    | 340    | U    | 350    | U    |
| Chrysene                   | 350      | U        | 360      | U        | 360      | U    | 340    | U    | 350    | U    |
| bis(2-Ethylhexyl)phthalate | 460      |          | 140      | J        | 150      | J    | 71     | J    | 350    | U    |
| Di-n-octylphthalate        | 350      | U        | 56       | J        | 70       | J    | 340    | U    | 350    | U    |
| Benzo(b)fluoranthene       | 350      | U        | 360      | U        | 360      | U    | 340    | U    | 350    | U    |
| Benzo(k)fluoranthene       | 350      | U        | 360      | U        | 360      | U    | 340    | U    | 350    | U    |
| Benzo(a)pyrene             | 350      | U        | 360      | U        | 360      | U    | 340    | U    | 350    | U    |
| Indeno(1,2,3-cd)pyrene     | 350      | U        | 360      | U        | 360      | U    | 340    | U    | 350    | U    |
| Dibenz(a,h)anthracene      | 350      | U        | 360      | U        | 360      | U    | 340    | U    | 350    | U    |
| Benzo(g,h,i)perylene       | 350      | U        | 360      | U        | 360      | U    | 340    | U    | 350    | U    |

Analytical Results (Qualified Data)

Case #: 26593 SDG: ECML0  
 Site: HIMCO DUMP, ELKHART  
 Lab.: IEANJ  
 Reviewer: S. Tobin  
 Date: 11/16/98

| Sample Number:             | ECMM7    | ECMN0    | ECMN1    | ECMN2    | ECMN3    |      |        |      |        |      |
|----------------------------|----------|----------|----------|----------|----------|------|--------|------|--------|------|
| Sampling Location:         | SB06-2   | SB10-0.5 | SB10-10  | SB10-2   | SB10-6   |      |        |      |        |      |
| Matrix:                    | Soil     | Soil     | Soil     | Soil     | Soil     |      |        |      |        |      |
| Units:                     | ug/kg    | ug/kg    | ug/kg    | ug/kg    | ug/kg    |      |        |      |        |      |
| Date Sampled:              | 10/19/98 | 10/20/98 | 10/20/98 | 10/20/98 | 10/20/98 |      |        |      |        |      |
| %Moisture:                 | 6        | 8        | 8        | 4        | 6        |      |        |      |        |      |
| PH:                        | 5.5      | 5.4      | 5.1      | 4.9      | 4.7      |      |        |      |        |      |
| Dilution Factor:           | 1.0      | 1.0      | 1.0      | 1.0      | 1.0      |      |        |      |        |      |
| Semivolatile Compound      | Result   | Flag     | Result   | Flag     | Result   | Flag | Result | Flag | Result | Flag |
| Phenol                     | 350      | U        | 360      | U        | 360      | U    | 340    | U    | 350    | U    |
| bis(2-Chloroethyl) ether   | 350      | U        | 360      | U        | 360      | U    | 340    | U    | 350    | U    |
| 2-Chlorophenol             | 350      | U        | 360      | U        | 360      | U    | 340    | U    | 350    | U    |
| 1,3-Dichlorobenzene        | 350      | U        | 360      | U        | 360      | U    | 340    | U    | 350    | U    |
| 1,4-Dichlorobenzene        | 350      | U        | 360      | U        | 360      | U    | 340    | U    | 350    | U    |
| 1,2-Dichlorobenzene        | 350      | U        | 360      | U        | 360      | U    | 340    | U    | 350    | U    |
| 2-Methylphenol             | 350      | U        | 360      | U        | 360      | U    | 340    | U    | 350    | U    |
| 2,2'-oxybis(1-chloropropan | 350      | U        | 360      | U        | 360      | U    | 340    | U    | 350    | U    |
| 4-Methylphenol             | 350      | U        | 360      | U        | 360      | U    | 340    | U    | 350    | U    |
| N-Nitroso-di-n-propylamine | 350      | U        | 360      | U        | 360      | U    | 340    | U    | 350    | U    |
| Hexachloroethane           | 350      | U        | 360      | U        | 360      | U    | 340    | U    | 350    | U    |
| Nitrobenzene               | 350      | U        | 360      | U        | 360      | U    | 340    | U    | 350    | U    |
| Isophorone                 | 350      | U        | 360      | U        | 360      | U    | 340    | U    | 350    | U    |
| 2-Nitrophenol              | 350      | U        | 360      | U        | 360      | U    | 340    | U    | 350    | U    |
| 2,4-Dimethylphenol         | 350      | U        | 360      | U        | 360      | U    | 340    | U    | 350    | U    |
| bis(2-Chloroethoxy)methane | 350      | U        | 360      | U        | 360      | U    | 340    | U    | 350    | U    |
| 2,4-Dichlorophenol         | 350      | U        | 360      | U        | 360      | U    | 340    | U    | 350    | U    |
| 1,2,4-Trichlorobenzene     | 350      | U        | 360      | U        | 360      | U    | 340    | U    | 350    | U    |
| Naphthalene                | 350      | U        | 360      | U        | 360      | U    | 340    | U    | 350    | U    |
| 4-Chloroaniline            | 350      | U        | 360      | U        | 360      | U    | 340    | U    | 350    | U    |
| Hexachlorobutadiene        | 350      | U        | 360      | U        | 360      | U    | 340    | U    | 350    | U    |
| 4-Chloro-3-methylphenol    | 350      | U        | 360      | U        | 360      | U    | 340    | U    | 350    | U    |
| 2-Methylnaphthalene        | 350      | U        | 360      | U        | 360      | U    | 340    | U    | 350    | U    |
| Hexachlorocyclopentadiene  | 350      | U        | 360      | U        | 360      | U    | 340    | U    | 350    | U    |
| 2,4,6-Trichlorophenol      | 350      | U        | 360      | U        | 360      | U    | 340    | U    | 350    | U    |
| 2,4,5-Trichlorophenol      | 880      | U        | 900      | U        | 900      | U    | 860    | U    | 880    | U    |
| 2-Chloronaphthalene        | 350      | U        | 360      | U        | 360      | U    | 340    | U    | 350    | U    |
| 2-Nitroaniline             | 880      | U        | 900      | U        | 900      | U    | 860    | U    | 880    | U    |
| Dimethylphthalate          | 350      | U        | 360      | U        | 360      | U    | 340    | U    | 350    | U    |
| Acenaphthylene             | 350      | U        | 360      | U        | 360      | U    | 340    | U    | 350    | U    |
| 2,6-Dinitrotoluene         | 350      | U        | 360      | U        | 360      | U    | 340    | U    | 350    | U    |
| 3-Nitroaniline             | 880      | U        | 900      | U        | 900      | U    | 860    | U    | 880    | U    |

## Analytical Results (Qualified Data)

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Case #: 26593                      SDG: ECML0  
 Site:                                HIMCO DUMP, ELKHART  
 Lab. :                                IEANJ  
 Reviewer:                          S. Tobin  
 Date:                                11/16/98

| Sample Number:             | ECML6    | ECML7    | ECML8    | ECML9    | ECMM6    |      |        |      |        |      |
|----------------------------|----------|----------|----------|----------|----------|------|--------|------|--------|------|
| Sampling Location:         | SB04-0.5 | SB04-2   | SB04-6   | SB06-0.5 | SB06-10  |      |        |      |        |      |
| Matrix:                    | Soil     | Soil     | Soil     | Soil     | Soil     |      |        |      |        |      |
| Units:                     | ug/kg    | ug/kg    | ug/kg    | ug/kg    | ug/kg    |      |        |      |        |      |
| Date Sampled:              | 10/19/98 | 10/19/98 | 10/19/98 | 10/19/98 | 10/19/98 |      |        |      |        |      |
| %Moisture:                 | 6        | 7        | 21       | 9        | 10       |      |        |      |        |      |
| PH:                        | 6.1      | 6        | 6.3      | 5.7      | 5.6      |      |        |      |        |      |
| Dilution Factor:           | 1.0      | 1.0      | 1.0      | 1.0      | 1.0      |      |        |      |        |      |
| Semivolatile Compound      | Result   | Flag     | Result   | Flag     | Result   | Flag | Result | Flag | Result | Flag |
| Acenaphthene               | 350      | U        | 350      | U        | 420      | U    | 360    | U    | 370    | U    |
| 2,4-Dinitrophenol          | 880      | U        | 890      | U        | 1000     | U    | 910    | U    | 920    | U    |
| 4-Nitrophenol              | 880      | U        | 890      | U        | 1000     | U    | 910    | U    | 920    | U    |
| Dibenzofuran               | 350      | U        | 350      | U        | 420      | U    | 360    | U    | 370    | U    |
| 2,4-Dinitrotoluene         | 350      | U        | 350      | U        | 420      | U    | 360    | U    | 370    | U    |
| Diethylphthalate           | 350      | U        | 350      | U        | 420      | U    | 360    | U    | 370    | U    |
| 4-Chlorophenyl-phenylether | 350      | U        | 350      | U        | 420      | U    | 360    | U    | 370    | U    |
| Fluorene                   | 350      | U        | 350      | U        | 420      | U    | 360    | U    | 370    | U    |
| 4-Nitroaniline             | 880      | U        | 890      | U        | 1000     | U    | 910    | U    | 920    | U    |
| 4,6-Dinitro-2-methylphenol | 880      | U        | 890      | U        | 1000     | U    | 910    | U    | 920    | U    |
| N-Nitrosodiphenylamine     | 350      | U        | 350      | U        | 420      | U    | 360    | U    | 370    | U    |
| 4-Bromophenyl-phenylether  | 350      | U        | 350      | U        | 420      | U    | 360    | U    | 370    | U    |
| Hexachlorobenzene          | 350      | U        | 350      | U        | 420      | U    | 360    | U    | 370    | U    |
| Pentachlorophenol          | 880      | U        | 890      | U        | 1000     | U    | 910    | U    | 920    | U    |
| Phenanthrene               | 350      | U        | 350      | U        | 420      | U    | 360    | U    | 370    | U    |
| Anthracene                 | 350      | U        | 350      | U        | 420      | U    | 360    | U    | 370    | U    |
| Carbazole                  | 350      | U        | 350      | U        | 420      | U    | 360    | U    | 370    | U    |
| Di-n-butylphthalate        | 350      | U        | 350      | U        | 420      | UJ   | 360    | UJ   | 370    | UJ   |
| Fluoranthene               | 350      | U        | 350      | U        | 420      | U    | 360    | U    | 370    | U    |
| Pyrene                     | 350      | U        | 350      | U        | 420      | U    | 360    | U    | 370    | U    |
| Butylbenzylphthalate       | 350      | U        | 350      | U        | 420      | U    | 360    | U    | 370    | U    |
| 3,3'-Dichlorobenzidine     | 350      | U        | 350      | U        | 420      | U    | 360    | U    | 370    | U    |
| Benzo(a)anthracene         | 350      | U        | 350      | U        | 420      | U    | 360    | U    | 370    | U    |
| Chrysene                   | 350      | U        | 350      | U        | 420      | U    | 360    | U    | 370    | U    |
| bis(2-Ethylhexyl)phthalate | 350      | U        | 350      | U        | 420      | U    | 360    | U    | 370    | U    |
| Di-n-octylphthalate        | 350      | U        | 350      | U        | 420      | U    | 360    | U    | 370    | U    |
| Benzo(b)fluoranthene       | 350      | U        | 350      | U        | 420      | U    | 360    | U    | 370    | U    |
| Benzo(k)fluoranthene       | 350      | U        | 350      | U        | 420      | U    | 360    | U    | 370    | U    |
| Benzo(a)pyrene             | 350      | U        | 350      | U        | 420      | U    | 360    | U    | 370    | U    |
| Indeno(1,2,3-cd)pyrene     | 350      | U        | 350      | U        | 420      | U    | 360    | U    | 370    | U    |
| Dibenz(a,h)anthracene      | 350      | U        | 350      | U        | 420      | U    | 360    | U    | 370    | U    |
| Benzo(g,h,i)perylene       | 61       | J        | 50       | J        | 74       | J    | 360    | U    | 250    | J    |

Case #: 26593                   SDG: ECML0  
 Site:                           HIMCO DUMP, ELKHART  
 Lab. :                          IEANJ  
 Reviewer:                    S. Tobin  
 Date:                          11/16/98

| Sample Number:             | ECML6    |      | ECML7    |      | ECML8    |      | ECML9    |      | ECMM6    |      |
|----------------------------|----------|------|----------|------|----------|------|----------|------|----------|------|
| Sampling Location:         | SB04-0.5 |      | SB04-2   |      | SB04-6   |      | SB06-0.5 |      | SB06-10  |      |
| Matrix:                    | Soil |  | Soil |  | Soil |  | Soil |  | Soil |
| Units: | ug/kg |  | ug/kg |  | ug/kg |  | ug/kg |  | ug/kg    |      |
| Date Sampled:              | 10/19/98 |      | 10/19/98 |      | 10/19/98 |      | 10/19/98 |      | 10/19/98 |      |
| %Moisture:                 | 6        |      | 7        |      | 21       |      | 9        |      | 10       |      |
| PH:                        | 6.1      |      | 6        |      | 6.3      |      | 5.7      |      | 5.6      |      |
| Dilution Factor:           | 1.0      |      | 1.0      |      | 1.0      |      | 1.0      |      | 1.0      |      |
| Semivolatile Compound | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result   | Flag |
| Phenol                     | 350      | U    | 350      | U    | 420      | U    | 360      | U    | 370      | U    |
| bis(2-Chloroethyl) ether   | 350      | U    | 350      | U    | 420      | U    | 360      | U    | 370      | U    |
| 2-Chlorophenol             | 350      | U    | 350      | U    | 420      | U    | 360      | U    | 370      | U    |
| 1,3-Dichlorobenzene        | 350      | U    | 350      | U    | 420      | U    | 360      | U    | 370      | U    |
| 1,4-Dichlorobenzene        | 350      | U    | 350      | U    | 420      | U    | 360      | U    | 370      | U    |
| 1,2-Dichlorobenzene        | 350      | U    | 350      | U    | 420      | U    | 360      | U    | 370      | U    |
| 2-Methylphenol             | 350      | U    | 350      | U    | 420      | U    | 360      | U    | 370      | U    |
| 2,2'-oxybis(1-chloropropan | 350      | U    | 350      | U    | 420      | U    | 360      | U    | 370      | U    |
| 4-Methylphenol             | 350      | U    | 350      | U    | 420      | U    | 360      | U    | 370      | U    |
| N-Nitroso-di-n-propylamine | 350      | U    | 350      | U    | 420      | U    | 360      | U    | 370      | U    |
| Hexachloroethane           | 350      | U    | 350      | U    | 420      | U    | 360      | U    | 370      | U    |
| Nitrobenzene               | 350      | U    | 350      | U    | 420      | U    | 360      | U    | 370      | U    |
| Isophorone                 | 350      | U    | 350      | U    | 420      | U    | 360      | U    | 370      | U    |
| 2-Nitrophenol              | 350      | U    | 350      | U    | 420      | U    | 360      | U    | 370      | U    |
| 2,4-Dimethylphenol         | 350      | U    | 350      | U    | 420      | U    | 360      | U    | 370      | U    |
| bis(2-Chloroethoxy)methane | 350      | U    | 350      | U    | 420      | U    | 360      | U    | 370      | U    |
| 2,4-Dichlorophenol         | 350      | U    | 350      | U    | 420      | U    | 360      | U    | 370      | U    |
| 1,2,4-Trichlorobenzene     | 350      | U    | 350      | U    | 420      | U    | 360      | U    | 370      | U    |
| Naphthalene                | 350      | U    | 350      | U    | 420      | U    | 360      | U    | 370      | U    |
| 4-Chloroaniline            | 350      | U    | 350      | U    | 420      | UJ   | 360      | UJ   | 370      | UJ   |
| Hexachlorobutadiene        | 350      | U    | 350      | U    | 420      | U    | 360      | U    | 370      | U    |
| 4-Chloro-3-methylphenol    | 350      | U    | 350      | U    | 420      | U    | 360      | U    | 370      | U    |
| 2-Methylnaphthalene        | 350      | U    | 350      | U    | 420      | U    | 360      | U    | 370      | U    |
| Hexachlorocyclopentadiene  | 350      | U    | 350      | U    | 420      | U    | 360      | U    | 370      | U    |
| 2,4,6-Trichlorophenol      | 350      | U    | 350      | U    | 420      | U    | 360      | U    | 370      | U    |
| 2,4,5-Trichlorophenol      | 880      | U    | 890      | U    | 1000     | U    | 910      | U    | 920      | U    |
| 2-Chloronaphthalene        | 350      | U    | 350      | U    | 420      | U    | 360      | U    | 370      | U    |
| 2-Nitroaniline             | 880      | U    | 890      | U    | 1000     | U    | 910      | U    | 920      | U    |
| Dimethylphthalate          | 350      | U    | 350      | U    | 420      | U    | 360      | U    | 370      | U    |
| Acenaphthylene             | 350      | U    | 350      | U    | 420      | U    | 360      | U    | 370      | U    |
| 2,6-Dinitrotoluene         | 350      | U    | 350      | U    | 420      | U    | 360      | U    | 370      | U    |
| 3-Nitroaniline             | 880      | U    | 890      | U    | 1000     | U    | 910      | U    | 920      | U    |

Case #: 26593                      SDG: ECML0  
 Site:                                HIMCO DUMP, ELKHART  
 Lab. :                                IEANJ  
 Reviewer:                          S. Tobin  
 Date:                                11/16/98

| Sample Number:             | ECML3    | ECML4    | ECML4MS  | ECML4MSD | ECML5    |      |        |      |        |      |
|----------------------------|----------|----------|----------|----------|----------|------|--------|------|--------|------|
| Sampling Location:         | SB18-6   | SB05-0.5 | SB05-0.5 | SB05-0.5 | SB05-2   |      |        |      |        |      |
| Matrix:                    | Soil     | Soil     | Soil     | Soil     | Soil     |      |        |      |        |      |
| Units:                     | ug/kg    | ug/kg    | ug/kg    | ug/kg    | ug/kg    |      |        |      |        |      |
| Date Sampled:              | 10/19/98 | 10/19/98 | 10/19/98 | 10/19/98 | 10/19/98 |      |        |      |        |      |
| %Moisture:                 | 10       | 6        | 8        | 5        | 4        |      |        |      |        |      |
| PH:                        | 7.6      | 7.8      | 7.1      | 7.8      | 7.9      |      |        |      |        |      |
| Dilution Factor:           | 1.0      | 1.0      | 1.0      | 1.0      | 1.0      |      |        |      |        |      |
| Semivolatile Compound      | Result   | Flag     | Result   | Flag     | Result   | Flag | Result | Flag | Result | Flag |
| Acenaphthene               | 370      | U        | 350      | UJ       | 1100     |      | 880    |      | 340    | U    |
| 2,4-Dinitrophenol          | 920      | U        | 880      | U        | 900      | U    | 870    | U    | 860    | U    |
| 4-Nitrophenol              | 920      | U        | 880      | U        | 1600     |      | 1300   |      | 860    | U    |
| Dibenzofuran               | 370      | U        | 350      | U        | 360      | U    | 350    | U    | 340    | U    |
| 2,4-Dinitrotoluene         | 370      | U        | 350      | U        | 960      |      | 820    |      | 340    | U    |
| Diethylphthalate           | 370      | U        | 350      | U        | 360      | U    | 350    | U    | 340    | U    |
| 4-Chlorophenyl-phenylether | 370      | U        | 350      | U        | 360      | U    | 350    | U    | 340    | U    |
| Fluorene                   | 370      | U        | 350      | U        | 360      | U    | 350    | U    | 340    | U    |
| 4-Nitroaniline             | 920      | U        | 880      | U        | 900      | U    | 870    | U    | 860    | U    |
| 4,6-Dinitro-2-methylphenol | 920      | U        | 880      | U        | 900      | U    | 870    | U    | 860    | U    |
| N-Nitrosodiphenylamine     | 370      | U        | 350      | U        | 360      | U    | 350    | U    | 340    | U    |
| 4-Bromophenyl-phenylether  | 370      | U        | 350      | U        | 360      | U    | 350    | U    | 340    | U    |
| Hexachlorobenzene          | 370      | U        | 350      | U        | 360      | U    | 350    | U    | 340    | U    |
| Pentachlorophenol          | 920      | U        | 880      | U        | 1700     |      | 1200   |      | 860    | U    |
| Phenanthrene               | 86       | J        | 46       | J        | 320      | J    | 140    | J    | 140    | J    |
| Anthracene                 | 370      | U        | 350      | U        | 71       | J    | 350    | U    | 340    | U    |
| Carbazole                  | 370      | U        | 350      | U        | 360      | U    | 350    | U    | 340    | U    |
| Di-n-butylphthalate        | 370      | U        | 350      | U        | 360      | U    | 350    | U    | 340    | U    |
| Fluoranthene               | 130      | J        | 130      | J        | 630      |      | 280    | J    | 210    | J    |
| Pyrene                     | 170      | J        | 140      | J        | 1600     |      | 1300   |      | 210    | J    |
| Butylbenzylphthalate       | 370      | U        | 350      | U        | 360      | U    | 350    | U    | 340    | U    |
| 3,3'-Dichlorobenzidine     | 370      | U        | 350      | U        | 360      | U    | 350    | U    | 340    | U    |
| Benzo(a)anthracene         | 77       | J        | 75       | J        | 370      |      | 170    | J    | 120    | J    |
| Chrysene                   | 100      | J        | 84       | J        | 380      |      | 180    | J    | 110    | J    |
| bis(2-Ethylhexyl)phthalate | 370      | U        | 350      | U        | 440      |      | 550    |      | 420    |      |
| Di-n-octylphthalate        | 370      | U        | 350      | U        | 360      | U    | 350    | U    | 340    | U    |
| Benzo(b)fluoranthene       | 100      | J        | 110      | J        | 590      |      | 230    | J    | 140    | J    |
| Benzo(k)fluoranthene       | 370      | U        | 350      | U        | 140      | J    | 61     | J    | 38     | J    |
| Benzo(a)pyrene             | 89       | J        | 89       | J        | 460      |      | 180    | J    | 110    | J    |
| Indeno(1,2,3-cd)pyrene     | 54       | J        | 79       | J        | 200      | J    | 100    | J    | 62     | J    |
| Dibenz(a,h)anthracene      | 370      | U        | 350      | U        | 75       | J    | 350    | U    | 340    | U    |
| Benzo(g,h,i)perylene       | 93       | J        | 110      | J        | 360      |      | 130    | J    | 78     | J    |

## Analytical Results (Qualified Data)

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Case #: 26593                   SDG: ECML0  
 Site:                           HIMCO DUMP, ELKHART  
 Lab. :                           IEANJ  
 Reviewer:                       S. Tobin  
 Date:                           11/16/98

| Sample Number:             | ECML3    |      | ECML4    |      | ECML4MS  |      | ECML4MSD |      | ECML5    |      |
|----------------------------|----------|------|----------|------|----------|------|----------|------|----------|------|
| Sampling Location:         | SB18-6   |      | SB05-0.5 |      | SB05-0.5 |      | SB05-0.5 |      | SB05-2   |      |
| Matrix:                    | Soil |  | Soil |  | Soil |  | Soil |  | Soil |
| Units: | ug/kg |  | ug/kg |  | ug/kg |  | ug/kg |  | ug/kg    |      |
| Date Sampled:              | 10/19/98 |      | 10/19/98 |      | 10/19/98 |      | 10/19/98 |      | 10/19/98 |      |
| %Moisture:                 | 10       |      | 6        |      | 8        |      | 5        |      | 4        |      |
| PH:                        | 7.6      |      | 7.8      |      | 7.1      |      | 7.8      |      | 7.9      |      |
| Dilution Factor:           | 1.0      |      | 1.0      |      | 1.0      |      | 1.0      |      | 1.0      |      |
| Semivolatile Compound | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result   | Flag |
| Phenol                     | 370      | U    | 350      | U    | 1600     |      | 1300     |      | 340      | U    |
| bis(2-Chloroethyl) ether   | 370      | U    | 350      | U    | 360      | U    | 350      | U    | 340      | U    |
| 2-Chlorophenol             | 370      | U    | 350      | U    | 1500     |      | 1300     |      | 340      | U    |
| 1,3-Dichlorobenzene        | 370      | U    | 350      | U    | 920      |      | 830      |      | 340      | U    |
| 1,4-Dichlorobenzene        | 370      | U    | 350      | U    | 890      |      | 800      |      | 340      | U    |
| 1,2-Dichlorobenzene        | 370      | U    | 350      | U    | 360      | U    | 350      | U    | 340      | U    |
| 2-Methylphenol             | 370      | U    | 350      | U    | 360      | U    | 350      | U    | 340      | U    |
| 2,2'-oxybis(1-chloropropan | 370      | U    | 350      | U    | 360      | U    | 350      | U    | 340      | U    |
| 4-Methylphenol             | 370      | U    | 350      | U    | 360      | U    | 350      | U    | 340      | U    |
| N-Nitroso-di-n-propylamine | 370      | U    | 350      | U    | 1000     |      | 840      |      | 340      | U    |
| Hexachloroethane           | 370      | U    | 350      | U    | 360      | U    | 350      | U    | 340      | U    |
| Nitrobenzene               | 370      | U    | 350      | U    | 360      | U    | 350      | U    | 340      | U    |
| Isophorone                 | 370      | U    | 350      | U    | 360      | U    | 350      | U    | 340      | U    |
| 2-Nitrophenol              | 370      | U    | 350      | U    | 360      | U    | 350      | U    | 340      | U    |
| 2,4-Dimethylphenol         | 370      | U    | 350      | U    | 360      | U    | 350      | U    | 340      | U    |
| bis(2-Chloroethoxy)methane | 370      | U    | 350      | U    | 360      | U    | 350      | U    | 340      | U    |
| 2,4-Dichlorophenol         | 370      | U    | 350      | U    | 360      | U    | 350      | U    | 340      | U    |
| 1,2,4-Trichlorobenzene     | 370      | U    | 350      | U    | 1000     |      | 840      |      | 340      | U    |
| Naphthalene                | 370      | U    | 350      | U    | 120      | J    | 350      | U    | 340      | U    |
| 4-Chloroaniline            | 370      | U    | 350      | U    | 360      | U    | 350      | U    | 340      | U    |
| Hexachlorobutadiene        | 370      | U    | 350      | U    | 360      | U    | 350      | U    | 340      | U    |
| 4-Chloro-3-methylphenol    | 370      | U    | 350      | U    | 1600     |      | 1400     |      | 340      | U    |
| 2-Methylnaphthalene        | 370      | U    | 350      | U    | 360      | U    | 350      | U    | 340      | U    |
| Hexachlorocyclopentadiene  | 370      | U    | 350      | U    | 360      | U    | 350      | U    | 340      | U    |
| 2,4,6-Trichlorophenol      | 370      | U    | 350      | U    | 360      | U    | 350      | U    | 340      | U    |
| 2,4,5-Trichlorophenol      | 920      | U    | 880      | U    | 900      | U    | 870      | U    | 860      | U    |
| 2-Chloronaphthalene        | 370      | U    | 350      | U    | 360      | U    | 350      | U    | 340      | U    |
| 2-Nitroaniline             | 920      | U    | 880      | U    | 900      | U    | 870      | U    | 860      | U    |
| Dimethylphthalate          | 370      | U    | 350      | U    | 40       | J    | 350      | U    | 340      | U    |
| Acenaphthylene             | 370      | U    | 350      | U    | 360      | U    | 350      | U    | 340      | U    |
| 2,6-Dinitrotoluene         | 370      | U    | 350      | U    | 360      | U    | 350      | U    | 340      | U    |
| 3-Nitroaniline             | 920      | U    | 880      | U    | 900      | U    | 870      | U    | 860      | U    |

Case #: 26593  
 Site: HIMCO DUMP, ELKHART  
 Lab.: IEANJ  
 Reviewer: S. Tobin  
 Date: 11/16/98

| Sample Number:             | ECMK8    | ECMK9    | ECML0    | ECML1    | ECML2    |      |        |      |        |      |
|----------------------------|----------|----------|----------|----------|----------|------|--------|------|--------|------|
| Sampling Location:         | SB15-0.5 | SB15-2   | SB15-6   | SB18-0.5 | SB18-2   |      |        |      |        |      |
| Matrix:                    | Soil     | Soil     | Soil     | Soil     | Soil     |      |        |      |        |      |
| Units:                     | ug/kg    | ug/kg    | ug/kg    | ug/kg    | ug/kg    |      |        |      |        |      |
| Date Sampled:              | 10/19/98 | 10/19/98 | 10/19/98 | 10/19/98 | 10/19/98 |      |        |      |        |      |
| %Moisture:                 | 10       | 6        | 0        | 10       | 8        |      |        |      |        |      |
| PH:                        | 7.2      | 7.7      | 7.3      | 7        | 7.6      |      |        |      |        |      |
| Dilution Factor:           | 1.0      | 1.0      | 1.0      | 1.0      | 1.0      |      |        |      |        |      |
| Semivolatile Compound      | Result   | Flag     | Result   | Flag     | Result   | Flag | Result | Flag | Result | Flag |
| Acenaphthene               | 73       | J        | 350      | U        | 330      | U    | 370    | U    | 37     | J    |
| 2,4-Dinitrophenol          | 920      | U        | 880      | U        | 830      | U    | 920    | U    | 900    | U    |
| 4-Nitrophenol              | 920      | U        | 880      | U        | 830      | U    | 920    | U    | 900    | U    |
| Dibenzofuran               | 370      | U        | 350      | U        | 330      | U    | 370    | U    | 360    | U    |
| 2,4-Dinitrotoluene         | 370      | U        | 350      | U        | 330      | U    | 370    | U    | 360    | U    |
| Diethylphthalate           | 370      | U        | 350      | U        | 330      | U    | 370    | U    | 360    | U    |
| 4-Chlorophenyl-phenylether | 370      | U        | 350      | U        | 330      | U    | 370    | U    | 360    | U    |
| Fluorene                   | 370      | U        | 350      | U        | 330      | U    | 370    | U    | 44     | J    |
| 4-Nitroaniline             | 920      | U        | 880      | U        | 830      | U    | 920    | U    | 900    | U    |
| 4,6-Dinitro-2-methylphenol | 920      | U        | 880      | U        | 830      | U    | 920    | U    | 900    | U    |
| N-Nitrosodiphenylamine     | 370      | U        | 350      | U        | 330      | U    | 370    | U    | 360    | U    |
| 4-Bromophenyl-phenylether  | 370      | U        | 350      | U        | 330      | U    | 370    | U    | 360    | U    |
| Hexachlorobenzene          | 370      | U        | 350      | U        | 330      | U    | 370    | U    | 360    | U    |
| Pentachlorophenol          | 920      | U        | 880      | U        | 830      | U    | 920    | U    | 900    | U    |
| Phenanthrene               | 360      | J        | 280      | J        | 170      | J    | 320    | J    | 590    |      |
| Anthracene                 | 63       | J        | 53       | J        | 41       | J    | 67     | J    | 130    | J    |
| Carbazole                  | 37       | J        | 350      | U        | 330      | U    | 46     | J    | 49     | J    |
| Di-n-butylphthalate        | 370      | UJ       | 350      | UJ       | 330      | U    | 370    | U    | 360    | U    |
| Fluoranthene               | 730      |          | 450      |          | 360      |      | 510    |      | 1200   |      |
| Pyrene                     | 900      |          | 540      |          | 430      |      | 470    |      | 1500   |      |
| Butylbenzylphthalate       | 370      | U        | 350      | U        | 330      | U    | 370    | U    | 360    | U    |
| 3,3'-Dichlorobenzidine     | 370      | U        | 350      | U        | 330      | U    | 370    | U    | 360    | U    |
| Benzo(a)anthracene         | 620      |          | 260      | J        | 250      | J    | 270    | J    | 770    |      |
| Chrysene                   | 760      |          | 270      | J        | 260      | J    | 270    | J    | 780    |      |
| bis(2-Ethylhexyl)phthalate | 370      | U        | 350      | U        | 330      | U    | 370    | U    | 360    | U    |
| Di-n-octylphthalate        | 370      | U        | 350      | U        | 330      | U    | 370    | U    | 360    | U    |
| Benzo(b)fluoranthene       | 1600     |          | 390      |          | 490      |      | 410    |      | 1000   |      |
| Benzo(k)fluoranthene       | 400      |          | 140      | J        | 140      | J    | 89     | J    | 340    | J    |
| Benzo(a)pyrene             | 1000     |          | 290      | J        | 430      |      | 280    | J    | 900    |      |
| Indeno(1,2,3-cd)pyrene     | 1200     |          | 230      | J        | 400      |      | 200    | J    | 720    |      |
| Dibenz(a,h)anthracene      | 320      | J        | 57       | J        | 99       | J    | 58     | J    | 200    | J    |
| Benzo(g,h,i)perylene       | 1500     |          | 310      | J        | 550      |      | 240    | J    | 820    |      |

## Analytical Results (Qualified Data)

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Case #: 26593                      SDG: ECML0  
 Site:                                HIMCO DUMP, ELKHART  
 Lab. :                                IEANJ  
 Reviewer:                          S. Tobin  
 Date:                                11/16/98

| Sample Number:             | ECMK8    |      | ECMK9    |      | ECML0    |      | ECML1    |      | ECML2    |      |
|----------------------------|----------|------|----------|------|----------|------|----------|------|----------|------|
| Sampling Location:         | SB15-0.5 |      | SB15-2   |      | SB15-6   |      | SB18-0.5 |      | SB18-2   |      |
| Matrix:                    | Soil |  | Soil |  | Soil |  | Soil |  | Soil |
| Units: | ug/kg |  | ug/kg |  | ug/kg |  | ug/kg |  | ug/kg    |      |
| Date Sampled:              | 10/19/98 |      | 10/19/98 |      | 10/19/98 |      | 10/19/98 |      | 10/19/98 |      |
| %Moisture:                 | 10       |      | 6        |      | 0        |      | 10       |      | 8        |      |
| PH:                        | 7.2      |      | 7.7      |      | 7.3      |      | 7        |      | 7.6      |      |
| Dilution Factor:           | 1.0      |      | 1.0      |      | 1.0      |      | 1.0      |      | 1.0      |      |
| Semivolatile Compound | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result   | Flag |
| Phenol                     | 370      | U    | 350      | U    | 330      | U    | 370      | U    | 360      | U    |
| bis(2-Chloroethyl)ether    | 370      | U    | 350      | U    | 330      | U    | 370      | U    | 360      | U    |
| 2-Chlorophenol             | 370      | U    | 350      | U    | 330      | U    | 370      | U    | 360      | U    |
| 1,3-Dichlorobenzene        | 370      | U    | 350      | U    | 330      | U    | 370      | U    | 360      | U    |
| 1,4-Dichlorobenzene        | 370      | U    | 350      | U    | 330      | U    | 370      | U    | 360      | U    |
| 1,2-Dichlorobenzene        | 370      | U    | 350      | U    | 330      | U    | 370      | U    | 360      | U    |
| 2-Methylphenol             | 370      | U    | 350      | U    | 330      | U    | 370      | U    | 360      | U    |
| 2,2'-oxybis(1-chloropropan | 370      | U    | 350      | U    | 330      | U    | 370      | U    | 360      | U    |
| 4-Methylphenol             | 370      | U    | 350      | U    | 330      | U    | 370      | U    | 360      | U    |
| N-Nitroso-di-n-propylamine | 370      | U    | 350      | U    | 330      | U    | 370      | U    | 360      | U    |
| Hexachloroethane           | 370      | U    | 350      | U    | 330      | U    | 370      | U    | 360      | U    |
| Nitrobenzene               | 370      | U    | 350      | U    | 330      | U    | 370      | U    | 360      | U    |
| Isophorone                 | 370      | U    | 350      | U    | 330      | U    | 370      | U    | 360      | U    |
| 2-Nitrophenol              | 370      | U    | 350      | U    | 330      | U    | 370      | U    | 360      | U    |
| 2,4-Dimethylphenol         | 370      | U    | 350      | U    | 330      | U    | 370      | U    | 360      | U    |
| bis(2-Chloroethoxy)methane | 370      | U    | 350      | U    | 330      | U    | 370      | U    | 360      | U    |
| 2,4-Dichlorophenol         | 370      | U    | 350      | U    | 330      | U    | 370      | U    | 360      | U    |
| 1,2,4-Trichlorobenzene     | 370      | U    | 350      | U    | 330      | U    | 370      | U    | 360      | U    |
| Naphthalene                | 370      | U    | 350      | U    | 38       | J    | 370      | U    | 50       | J    |
| 4-Chloroaniline            | 370      | UJ   | 350      | UJ   | 330      | U    | 370      | U    | 360      | U    |
| Hexachlorobutadiene        | 370      | U    | 350      | U    | 330      | U    | 370      | U    | 360      | U    |
| 4-Chloro-3-methylphenol    | 370      | U    | 350      | U    | 330      | U    | 370      | U    | 360      | U    |
| 2-Methylnaphthalene        | 370      | U    | 350      | U    | 330      | U    | 370      | U    | 48       | J    |
| Hexachlorocyclopentadiene  | 370      | U    | 350      | U    | 330      | U    | 370      | U    | 360      | U    |
| 2,4,6-Trichlorophenol      | 370      | U    | 350      | U    | 330      | U    | 370      | U    | 360      | U    |
| 2,4,5-Trichlorophenol      | 920      | U    | 880      | U    | 830      | U    | 920      | U    | 900      | U    |
| 2-Chloronaphthalene        | 370      | U    | 350      | U    | 330      | U    | 370      | U    | 360      | U    |
| 2-Nitroaniline             | 920      | U    | 880      | U    | 830      | U    | 920      | U    | 900      | U    |
| Dimethylphthalate          | 370      | U    | 350      | U    | 330      | U    | 370      | U    | 360      | U    |
| Acenaphthylene             | 370      | U    | 350      | U    | 67       | J    | 370      | U    | 83       | J    |
| 2,6-Dinitrotoluene         | 370      | U    | 350      | U    | 330      | U    | 370      | U    | 360      | U    |
| 3-Nitroaniline             | 920      | U    | 880      | U    | 830      | U    | 920      | U    | 900      | U    |

Case #: 26593                      SDG: ECML0  
 Site:                                HIMCO DUMP, ELKHART  
 Lab. :                                IEANJ  
 Reviewer:                          S. Tobin  
 Date:                                 11/16/98

| Sample Number:            | ECMN4    | ECMN7    | ECMN7RE  |      |        |      |        |      |        |      |
|---------------------------|----------|----------|----------|------|--------|------|--------|------|--------|------|
| Sampling Location:        | SB14-0.5 | SB13-0.5 | SB13-0.5 |      |        |      |        |      |        |      |
| Matrix:                   | Soil     | Soil     | Soil     |      |        |      |        |      |        |      |
| Units:                    | ug/kg    | ug/kg    | ug/kg    |      |        |      |        |      |        |      |
| Date Sampled:             | 10/20/98 | 10/20/98 | 10/20/98 |      |        |      |        |      |        |      |
| %Moisture:                | 18       | 11       | 11       |      |        |      |        |      |        |      |
| PH:                       |          |          |          |      |        |      |        |      |        |      |
| Dilution Factor:          | 1.0      | 1.0      | 1.0      |      |        |      |        |      |        |      |
| Volatile Compound         | Result   | Flag     | Result   | Flag | Result | Flag | Result | Flag | Result | Flag |
| Chloromethane             | 12       | U        | 11       | UJ   | 11     | UJ   |        |      |        |      |
| Bromomethane              | 12       | U        | 11       | UJ   | 11     | UJ   |        |      |        |      |
| Vinyl Chloride            | 12       | U        | 11       | UJ   | 11     | UJ   |        |      |        |      |
| Chloroethane              | 12       | UJ       | 11       | UJ   | 11     | UJ   |        |      |        |      |
| Methylene Chloride        | 12       | U        | 11       | UJ   | 11     | UJ   |        |      |        |      |
| Acetone                   | 12       | U        | 11       | UJ   | 11     | UJ   |        |      |        |      |
| Carbon Disulfide          | 12       | U        | 11       | UJ   | 11     | UJ   |        |      |        |      |
| 1,1-Dichloroethene        | 12       | U        | 11       | UJ   | 11     | UJ   |        |      |        |      |
| 1,1-Dichloroethane        | 12       | U        | 11       | UJ   | 11     | UJ   |        |      |        |      |
| Total 1,2-Dichloroethene  | 12       | U        | 11       | UJ   | 11     | UJ   |        |      |        |      |
| Chloroform                | 12       | U        | 11       | UJ   | 11     | UJ   |        |      |        |      |
| 1,2-Dichloroethane        | 12       | U        | 11       | UJ   | 11     | UJ   |        |      |        |      |
| 2-Butanone                | 12       | U        | 11       | UJ   | 11     | UJ   |        |      |        |      |
| 1,1,1-Trichloroethane     | 12       | U        | 11       | UJ   | 11     | UJ   |        |      |        |      |
| Carbon Tetrachloride      | 12       | U        | 11       | UJ   | 11     | UJ   |        |      |        |      |
| Bromodichloromethane      | 12       | U        | 11       | UJ   | 11     | UJ   |        |      |        |      |
| 1,2-Dichloropropane       | 12       | U        | 11       | UJ   | 11     | UJ   |        |      |        |      |
| Cis-1,3-Dichloropropene   | 12       | U        | 11       | UJ   | 11     | UJ   |        |      |        |      |
| Trichloroethene           | 12       | UJ       | 11       | UJ   | 11     | UJ   |        |      |        |      |
| Dibromochloromethane      | 12       | U        | 11       | UJ   | 11     | UJ   |        |      |        |      |
| 1,1,2-Trichloroethane     | 12       | U        | 11       | UJ   | 11     | UJ   |        |      |        |      |
| Benzene                   | 12       | U        | 11       | UJ   | 11     | UJ   |        |      |        |      |
| Trans-1,3-Dichloropropene | 12       | U        | 11       | UJ   | 11     | UJ   |        |      |        |      |
| Bromoform                 | 12       | U        | 11       | UJ   | 11     | UJ   |        |      |        |      |
| 4-Methyl-2-pentanone      | 12       | U        | 11       | R    | 11     | R    |        |      |        |      |
| 2-Hexanone                | 12       | U        | 11       | R    | 11     | R    |        |      |        |      |
| Tetrachloroethene         | 12       | UJ       | 11       | R    | 11     | R    |        |      |        |      |
| 1,1,2,2-Tetrachloroethane | 12       | U        | 11       | R    | 11     | R    |        |      |        |      |
| Toluene                   | 12       | U        | 11       | R    | 11     | R    |        |      |        |      |
| Chlorobenzene             | 12       | U        | 11       | R    | 11     | R    |        |      |        |      |
| Ethylbenzene              | 12       | U        | 11       | R    | 11     | R    |        |      |        |      |
| Styrene                   | 12       | U        | 11       | R    | 11     | R    |        |      |        |      |
| Xylene (total)            | 12       | U        | 11       | R    | 11     | R    |        |      |        |      |

## Analytical Results (Qualified Data)

Page A of 14

Case #: 26593                      SDG: ECML0  
 Site:                                HIMCO DUMP, ELKHART  
 Lab. :                                IEANJ  
 Reviewer:                          S. Tobin  
 Date:                                11/16/98

| Sample Number:            | ECMM7    | ECMNO    | ECMN1    | ECMN2    | ECMN3    |      |        |      |        |      |
|---------------------------|----------|----------|----------|----------|----------|------|--------|------|--------|------|
| Sampling Location:        | SB06-2   | SB10-0.5 | SB10-10  | SB10-2   | SB10-6   |      |        |      |        |      |
| Matrix:                   | Soil     | Soil     | Soil     | Soil     | Soil     |      |        |      |        |      |
| Units:                    | ug/kg    | ug/kg    | ug/kg    | ug/kg    | ug/kg    |      |        |      |        |      |
| Date Sampled:             | 10/19/98 | 10/20/98 | 10/20/98 | 10/20/98 | 10/20/98 |      |        |      |        |      |
| %Moisture:                | 6        | 8        | 8        | 4        | 6        |      |        |      |        |      |
| PH:                       |          |          |          |          |          |      |        |      |        |      |
| Dilution Factor:          | 1.0      | 1.0      | 1.0      | 1.0      | 1.0      |      |        |      |        |      |
| Volatile Compound         | Result   | Flag     | Result   | Flag     | Result   | Flag | Result | Flag | Result | Flag |
| Chloromethane             | 11       | U        | 11       | U        | 11       | U    | 10     | U    | 11     | U    |
| Bromomethane              | 11       | U        | 11       | U        | 11       | U    | 10     | U    | 11     | U    |
| Vinyl Chloride            | 11       | U        | 11       | U        | 11       | U    | 10     | U    | 11     | U    |
| Chloroethane              | 11       | UJ       | 11       | UJ       | 11       | UJ   | 10     | UJ   | 11     | UJ   |
| Methylene Chloride        | 11       | U        | 11       | U        | 11       | U    | 10     | U    | 11     | U    |
| Acetone                   | 11       | U        | 11       | U        | 11       | U    | 10     | U    | 11     | U    |
| Carbon Disulfide          | 11       | U        | 11       | U        | 11       | U    | 10     | U    | 11     | U    |
| 1,1-Dichloroethene        | 11       | U        | 11       | U        | 11       | U    | 10     | U    | 11     | U    |
| 1,1-Dichloroethane        | 11       | U        | 11       | U        | 11       | U    | 10     | U    | 11     | U    |
| Total 1,2-Dichloroethene  | 11       | U        | 11       | U        | 11       | U    | 10     | U    | 11     | U    |
| Chloroform                | 11       | U        | 11       | U        | 11       | U    | 10     | U    | 11     | U    |
| 1,2-Dichloroethane        | 11       | U        | 11       | U        | 11       | U    | 10     | U    | 11     | U    |
| 2-Butanone                | 11       | U        | 11       | U        | 11       | U    | 10     | U    | 11     | U    |
| 1,1,1-Trichloroethane     | 11       | U        | 11       | U        | 11       | U    | 10     | U    | 11     | U    |
| Carbon Tetrachloride      | 11       | U        | 11       | U        | 11       | U    | 10     | U    | 11     | U    |
| Bromodichloromethane      | 11       | U        | 11       | U        | 11       | U    | 10     | U    | 11     | U    |
| 1,2-Dichloropropane       | 11       | U        | 11       | U        | 11       | U    | 10     | U    | 11     | U    |
| Cis-1,3-Dichloropropene   | 11       | U        | 11       | U        | 11       | U    | 10     | U    | 11     | U    |
| Trichloroethene           | 11       | UJ       | 11       | UJ       | 11       | UJ   | 10     | UJ   | 11     | UJ   |
| Dibromochloromethane      | 11       | U        | 11       | U        | 11       | U    | 10     | U    | 11     | U    |
| 1,1,2-Trichloroethane     | 11       | U        | 11       | U        | 11       | U    | 10     | U    | 11     | U    |
| Benzene                   | 11       | U        | 11       | U        | 11       | U    | 10     | U    | 11     | U    |
| Trans-1,3-Dichloropropene | 11       | U        | 11       | U        | 11       | U    | 10     | U    | 11     | U    |
| Bromoform                 | 11       | U        | 11       | U        | 11       | U    | 10     | U    | 11     | U    |
| 4-Methyl-2-pentanone      | 11       | U        | 11       | U        | 11       | U    | 10     | U    | 11     | U    |
| 2-Hexanone                | 11       | U        | 11       | U        | 11       | U    | 10     | U    | 11     | U    |
| Tetrachloroethene         | 11       | UJ       | 11       | UJ       | 11       | UJ   | 10     | UJ   | 11     | UJ   |
| 1,1,2,2-Tetrachloroethane | 11       | U        | 11       | U        | 11       | U    | 10     | U    | 11     | U    |
| Toluene                   | 11       | U        | 11       | U        | 11       | U    | 10     | U    | 11     | U    |
| Chlorobenzene             | 11       | U        | 11       | U        | 11       | U    | 10     | U    | 11     | U    |
| Ethylbenzene              | 11       | U        | 11       | U        | 11       | U    | 10     | U    | 11     | U    |
| Styrene                   | 11       | U        | 11       | U        | 11       | U    | 10     | U    | 11     | U    |
| Xylene (total)            | 11       | U        | 11       | U        | 11       | U    | 10     | U    | 11     | U    |

Analytical Results (Qualified Data)

Case #: 26593                   SDG: ECML0  
 Site:                           HIMCO DUMP, ELKHART  
 Lab. :                           IEANJ  
 Reviewer:                   S. Tobin  
 Date:                           11/16/98

| Sample Number:            | ECML6    |      | ECML7    |      | ECML8    |      | ECML9    |      | ECMM6    |      |
|---------------------------|----------|------|----------|------|----------|------|----------|------|----------|------|
| Sampling Location:        | SB04-0.5 |      | SB04-2   |      | SB04-6   |      | SB06-0.5 |      | SB06-10  |      |
| Matrix:                   | Soil |  | Soil |  | Soil |  | Soil |  | Soil |
| Units: | ug/kg |  | ug/kg |  | ug/kg |  | ug/kg |  | ug/kg    |      |
| Date Sampled:             | 10/19/98 |      | 10/19/98 |      | 10/19/98 |      | 10/19/98 |      | 10/19/98 |      |
| %Moisture:                | 6        |      | 7        |      | 21       |      | 9        |      | 10       |      |
| PH:                       |          |      |          |      |          |      |          |      |          |      |
| Dilution Factor:          | 1.0      |      | 1.0      |      | 1.0      |      | 1.0      |      | 1.0      |      |
| Volatile Compound         | Result   | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag |
| Chloromethane             | 11       | U    | 11       | U    | 13       | U    | 11       | U    | 11       | U    |
| Bromomethane              | 11       | U    | 11       | U    | 13       | U    | 11       | U    | 11       | U    |
| Vinyl Chloride            | 11       | U    | 11       | U    | 13       | U    | 11       | U    | 11       | U    |
| Chloroethane              | 11       | UJ   | 11       | UJ   | 13       | UJ   | 11       | UJ   | 11       | UJ   |
| Methylene Chloride        | 11       | U    | 11       | U    | 13       | U    | 11       | U    | 11       | U    |
| Acetone                   | 11       | U    | 11       | U    | 13       | U    | 11       | U    | 11       | U    |
| Carbon Disulfide          | 11       | U    | 11       | U    | 13       | U    | 11       | U    | 11       | U    |
| 1,1-Dichloroethene        | 11       | U    | 11       | U    | 13       | U    | 11       | U    | 11       | U    |
| 1,1-Dichloroethane        | 11       | U    | 11       | U    | 13       | U    | 11       | U    | 11       | U    |
| Total 1,2-Dichloroethene  | 11       | U    | 11       | U    | 13       | U    | 11       | U    | 11       | U    |
| Chloroform                | 11       | U    | 11       | U    | 13       | U    | 11       | U    | 11       | U    |
| 1,2-Dichloroethane        | 11       | U    | 11       | U    | 13       | U    | 11       | U    | 11       | U    |
| 2-Butanone                | 11       | U    | 11       | U    | 13       | U    | 11       | U    | 11       | U    |
| 1,1,1-Trichloroethane     | 11       | U    | 11       | U    | 13       | U    | 11       | U    | 11       | U    |
| Carbon Tetrachloride      | 11       | U    | 11       | U    | 13       | U    | 11       | U    | 11       | U    |
| Bromodichloromethane      | 11       | U    | 11       | U    | 13       | U    | 11       | U    | 11       | U    |
| 1,2-Dichloropropane       | 11       | U    | 11       | U    | 13       | U    | 11       | U    | 11       | U    |
| Cis-1,3-Dichloropropene   | 11       | U    | 11       | U    | 13       | U    | 11       | U    | 11       | U    |
| Trichloroethene           | 11       | UJ   | 11       | UJ   | 13       | UJ   | 11       | UJ   | 11       | UJ   |
| Dibromochloromethane      | 11       | U    | 11       | U    | 13       | U    | 11       | U    | 11       | U    |
| 1,1,2-Trichloroethane     | 11       | U    | 11       | U    | 13       | U    | 11       | U    | 11       | U    |
| Benzene                   | 11       | U    | 11       | U    | 13       | U    | 11       | U    | 11       | U    |
| Trans-1,3-Dichloropropene | 11       | U    | 11       | U    | 13       | U    | 11       | U    | 11       | U    |
| Bromoform                 | 11       | U    | 11       | U    | 13       | U    | 11       | U    | 11       | U    |
| 4-Methyl-2-pentanone      | 11       | U    | 11       | U    | 13       | U    | 11       | U    | 11       | U    |
| 2-Hexanone                | 11       | U    | 11       | U    | 13       | U    | 11       | U    | 11       | U    |
| Tetrachloroethene         | 11       | UJ   | 11       | UJ   | 13       | UJ   | 11       | UJ   | 11       | UJ   |
| 1,1,2,2-Tetrachloroethane | 11       | U    | 11       | U    | 13       | U    | 11       | U    | 11       | U    |
| Toluene                   | 11       | U    | 11       | U    | 13       | U    | 11       | U    | 11       | U    |
| Chlorobenzene             | 11       | U    | 11       | U    | 13       | U    | 11       | U    | 11       | U    |
| Ethylbenzene              | 11       | U    | 11       | U    | 13       | U    | 11       | U    | 11       | U    |
| Styrene                   | 11       | U    | 11       | U    | 13       | U    | 11       | U    | 11       | U    |
| Xylene (total)            | 11       | U    | 11       | U    | 13       | U    | 11       | U    | 11       | U    |

Analytical Results (Qualified Data)

Case #: 26593 SDG: ECML0  
 Site: HIMCO DUMP, ELKHART  
 Lab.: IEANJ  
 Reviewer: S. Tobin  
 Date: 11/16/98

| Sample Number:            | ECML3    | ECML4    | ECML4MS  | ECML4MSD | ECML5    |      |        |      |        |      |
|---------------------------|----------|----------|----------|----------|----------|------|--------|------|--------|------|
| Sampling Location:        | SB18-6   | SB05-0.5 | SB05-0.5 | SB05-0.5 | SB05-2   |      |        |      |        |      |
| Matrix:                   | Soil     | Soil     | Soil     | Soil     | Soil     |      |        |      |        |      |
| Units:                    | ug/kg    | ug/kg    | ug/kg    | ug/kg    | ug/kg    |      |        |      |        |      |
| Date Sampled:             | 10/19/98 | 10/19/98 | 10/19/98 | 10/19/98 | 10/19/98 |      |        |      |        |      |
| %Moisture:                | 10       | 6        | 8        | 5        | 4        |      |        |      |        |      |
| PH:                       |          |          |          |          |          |      |        |      |        |      |
| Dilution Factor:          | 1.0      | 1.0      | 1.0      | 1.0      | 1.0      |      |        |      |        |      |
| Volatile Compound         | Result   | Flag     | Result   | Flag     | Result   | Flag | Result | Flag | Result | Flag |
| Chloromethane             | 11       | U        | 11       | U        | 11       | U    | 10     | U    | 10     | U    |
| Bromomethane              | 11       | U        | 11       | U        | 11       | U    | 10     | U    | 10     | U    |
| Vinyl Chloride            | 11       | U        | 11       | U        | 11       | U    | 10     | U    | 10     | U    |
| Chloroethane              | 11       | UJ       | 11       | UJ       | 11       | UJ   | 10     | UJ   | 10     | UJ   |
| Methylene Chloride        | 11       | U        | 11       | U        | 11       | U    | 10     | U    | 10     | U    |
| Acetone                   | 11       | U        | 11       | U        | 11       | U    | 10     | U    | 10     | U    |
| Carbon Disulfide          | 11       | U        | 11       | U        | 11       | U    | 10     | U    | 10     | U    |
| 1,1-Dichloroethene        | 11       | U        | 11       | U        | 49       |      | 52     |      | 10     |      |
| 1,1-Dichloroethane        | 11       | U        | 11       | U        | 11       | U    | 10     | U    | 10     | U    |
| Total 1,2-Dichloroethene  | 11       | U        | 11       | U        | 11       | U    | 10     | U    | 10     | U    |
| Chloroform                | 11       | U        | 11       | U        | 11       | U    | 10     | U    | 10     | U    |
| 1,2-Dichloroethane        | 11       | U        | 11       | U        | 11       | U    | 10     | U    | 10     | U    |
| 2-Butanone                | 11       | U        | 11       | U        | 11       | U    | 10     | U    | 10     | U    |
| 1,1,1-Trichloroethane     | 11       | U        | 11       | U        | 11       | U    | 10     | U    | 10     | U    |
| Carbon Tetrachloride      | 11       | U        | 11       | U        | 11       | U    | 10     | U    | 10     | U    |
| Bromodichloromethane      | 11       | U        | 11       | U        | 11       | U    | 10     | U    | 10     | U    |
| 1,2-Dichloropropane       | 11       | U        | 11       | U        | 11       | U    | 10     | U    | 10     | U    |
| Cis-1,3-Dichloropropene   | 11       | U        | 11       | U        | 11       | U    | 10     | U    | 10     | U    |
| Trichloroethene           | 11       | UJ       | 11       | UJ       | 49       | J    | 50     | J    | 10     | UJ   |
| Dibromochloromethane      | 11       | U        | 11       | U        | 11       | U    | 10     | U    | 10     | U    |
| 1,1,2-Trichloroethane     | 11       | U        | 11       | U        | 11       | U    | 10     | U    | 10     | U    |
| Benzene                   | 11       | U        | 11       | U        | 50       |      | 49     |      | 10     | U    |
| Trans-1,3-Dichloropropene | 11       | U        | 11       | U        | 11       | U    | 10     | U    | 10     | U    |
| Bromoform                 | 11       | U        | 11       | U        | 11       | U    | 10     | U    | 10     | U    |
| 4-Methyl-2-pentanone      | 11       | U        | 11       | U        | 11       | U    | 10     | U    | 10     | U    |
| 2-Hexanone                | 11       | U        | 11       | U        | 11       | U    | 10     | U    | 10     | U    |
| Tetrachloroethene         | 11       | UJ       | 11       | UJ       | 11       | UJ   | 10     | UJ   | 10     | UJ   |
| 1,1,2,2-Tetrachloroethane | 11       | U        | 11       | U        | 11       | U    | 10     | U    | 10     | U    |
| Toluene                   | 11       | U        | 11       | U        | 54       |      | 53     |      | 10     | U    |
| Chlorobenzene             | 11       | U        | 11       | U        | 56       |      | 53     |      | 10     | U    |
| Ethylbenzene              | 11       | U        | 11       | U        | 11       | U    | 10     | U    | 10     | U    |
| Styrene                   | 11       | U        | 11       | U        | 11       | U    | 10     | U    | 10     | U    |
| Xylene (total)            | 11       | U        | 11       | U        | 11       | U    | 10     | U    | 10     | U    |

Case #: 26593  
 Site: HIMCO DUMP, ELKHART  
 Lab.: IEANJ  
 Reviewer: S. Tobin  
 Date: 11/16/98

| Sample Number:            | ECMK8    | ECMK9    | ECML0    | ECML1    | ECML2    |      |        |      |        |      |
|---------------------------|----------|----------|----------|----------|----------|------|--------|------|--------|------|
| Sampling Location:        | SB15-0.5 | SB15-2   | SB15-6   | SB18-0.5 | SB18-2   |      |        |      |        |      |
| Matrix:                   | Soil     | Soil     | Soil     | Soil     | Soil     |      |        |      |        |      |
| Units:                    | ug/kg    | ug/kg    | ug/kg    | ug/kg    | ug/kg    |      |        |      |        |      |
| Date Sampled:             | 10/19/98 | 10/19/98 | 10/19/98 | 10/19/98 | 10/19/98 |      |        |      |        |      |
| %Moisture:                | 10       | 6        | 0        | 10       | 8        |      |        |      |        |      |
| PH:                       |          |          |          |          |          |      |        |      |        |      |
| Dilution Factor:          | 1.0      | 1.0      | 1.0      | 1.0      | 1.0      |      |        |      |        |      |
| Volatile Compound         | Result   | Flag     | Result   | Flag     | Result   | Flag | Result | Flag | Result | Flag |
| Chloromethane             | 11       | U        | 11       | U        | 10       | U    | 11     | U    | 11     | U    |
| Bromomethane              | 11       | U        | 11       | U        | 10       | U    | 11     | U    | 11     | U    |
| Vinyl Chloride            | 11       | U        | 11       | U        | 10       | U    | 11     | U    | 11     | U    |
| Chloroethane              | 11       | UJ       | 11       | UJ       | 10       | UJ   | 11     | UJ   | 11     | UJ   |
| Methylene Chloride        | 11       | U        | 11       | U        | 10       | U    | 11     | U    | 11     | U    |
| Acetone                   | 11       | U        | 22       |          | 10       | U    | 11     | U    | 11     | U    |
| Carbon Disulfide          | 11       | U        | 11       | U        | 10       | U    | 11     | U    | 11     | U    |
| 1,1-Dichloroethene        | 11       | U        | 11       | U        | 10       | U    | 11     | U    | 11     | U    |
| 1,1-Dichloroethane        | 11       | U        | 11       | U        | 10       | U    | 11     | U    | 11     | U    |
| Total 1,2-Dichloroethene  | 11       | U        | 11       | U        | 10       | U    | 11     | U    | 11     | U    |
| Chloroform                | 11       | U        | 11       | U        | 10       | U    | 11     | U    | 11     | U    |
| 1,2-Dichloroethane        | 11       | U        | 11       | U        | 10       | U    | 11     | U    | 11     | U    |
| 2-Butanone                | 11       | U        | 11       | U        | 10       | U    | 11     | U    | 11     | U    |
| 1,1,1-Trichloroethane     | 11       | U        | 11       | U        | 10       | U    | 11     | U    | 11     | U    |
| Carbon Tetrachloride      | 11       | U        | 11       | U        | 10       | U    | 11     | U    | 11     | U    |
| Bromodichloromethane      | 11       | U        | 11       | U        | 10       | U    | 11     | U    | 11     | U    |
| 1,2-Dichloropropane       | 11       | U        | 11       | U        | 10       | U    | 11     | U    | 11     | U    |
| Cis-1,3-Dichloropropene   | 11       | U        | 11       | U        | 10       | U    | 11     | U    | 11     | U    |
| Trichloroethene           | 11       | UJ       | 11       | UJ       | 10       | UJ   | 11     | UJ   | 11     | UJ   |
| Dibromochloromethane      | 11       | U        | 11       | U        | 10       | U    | 11     | U    | 11     | U    |
| 1,1,2-Trichloroethane     | 11       | U        | 11       | U        | 10       | U    | 11     | U    | 11     | U    |
| Benzene                   | 11       | U        | 11       | U        | 10       | U    | 11     | U    | 11     | U    |
| Trans-1,3-Dichloropropene | 11       | U        | 11       | U        | 10       | U    | 11     | U    | 11     | U    |
| Bromoform                 | 11       | U        | 11       | U        | 10       | U    | 11     | U    | 11     | U    |
| 4-Methyl-2-pentanone      | 11       | U        | 11       | U        | 10       | U    | 11     | U    | 11     | U    |
| 2-Hexanone                | 11       | U        | 11       | U        | 10       | U    | 11     | U    | 11     | U    |
| Tetrachloroethene         | 11       | UJ       | 11       | UJ       | 10       | UJ   | 11     | UJ   | 11     | UJ   |
| 1,1,2,2-Tetrachloroethane | 11       | U        | 11       | U        | 10       | U    | 11     | U    | 11     | U    |
| Toluene                   | 11       | U        | 11       | U        | 10       | U    | 11     | U    | 11     | U    |
| Chlorobenzene             | 11       | U        | 11       | U        | 10       | U    | 11     | U    | 11     | U    |
| Ethylbenzene              | 11       | U        | 11       | U        | 10       | U    | 11     | U    | 11     | U    |
| Styrene                   | 11       | U        | 11       | U        | 10       | U    | 11     | U    | 11     | U    |
| Xylene (total)            | 11       | U        | 11       | U        | 10       | U    | 11     | U    | 11     | U    |

Semivolatile Analysis Data - ECMN4  
Tentatively Identified Compounds

CASE NO: 26593  
SDG NO: ECML0

LABORATORY: IEA-NJ

| CAS NUMBER                 | COMPOUND NAME | RT    | ESTIMATED CONCENTRATION | Q |
|----------------------------|---------------|-------|-------------------------|---|
| UNKNOWN                    |               | 4.39  | 410.000                 |   |
| ALDOL CONDENSATION PRODUCT |               | 4.82  | 110000.000              |   |
| UNKNOWN                    |               | 5.56  | 2400.000                |   |
| UNKNOWN                    |               | 6.30  | 480.000                 |   |
| UNKNOWN                    |               | 6.46  | 170.000                 |   |
| UNKNOWN ACID               |               | 12.47 | 160.000                 |   |
| UNKNOWN ACID               |               | 15.71 | 220.000                 |   |
| TRANS-CHLORDANE            |               | 17.60 | 160.000                 |   |
| UNKNOWN PAH                |               | 21.29 | 1200.000                |   |
| UNKNOWN                    |               | 21.47 | 180.000                 |   |
| UNKNOWN                    |               | 22.24 | 690.000                 |   |
| UNKNOWN                    |               | 22.44 | 160.000                 |   |
| UNKNOWN PAH                |               | 22.62 | 340.000                 |   |
| UNKNOWN                    |               | 24.39 | 180.000                 |   |
| UNKNOWN                    |               | 25.67 | 250.000                 |   |
| UNKNOWN                    |               | 25.78 | 410.000                 |   |
| UNKNOWN                    |               | 26.15 | 470.000                 |   |
| UNKNOWN                    |               | 26.52 | 290.000                 |   |
| UNKNOWN                    |               | 27.55 | 190.000                 |   |
| UNKNOWN                    |               | 28.92 | 210.000                 |   |
| UNKNOWN                    |               | 29.15 | 2800.000                |   |
| UNKNOWN                    |               | 30.08 | 330.000                 |   |
| UNKNOWN                    |               | 30.14 | 200.000                 |   |
| UNKNOWN                    |               | 30.44 | 390.000                 |   |
| UNKNOWN                    |               | 30.57 | 430.000                 |   |
| UNKNOWN                    |               | 30.94 | 190.000                 |   |
| UNKNOWN                    |               | 31.21 | 410.000                 |   |

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Semivolatile Analysis Data - ECMN7  
Tentatively Identified Compounds

CASE NO: 26593  
SDG NO: ECML0

LABORATORY: IEA-NJ

| CAS NUMBER                 | COMPOUND NAME | RT    | ESTIMATED CONCENTRATION | Q |
|----------------------------|---------------|-------|-------------------------|---|
| UNKNOWN                    |               | 4.30  | 140.000                 |   |
| UNKNOWN                    |               | 4.38  | 380.000                 |   |
| ALDOL CONDENSATION PRODUCT |               | 4.80  | 100000.000              |   |
| UNKNOWN ALCOHOL            |               | 5.22  | 140.000                 |   |
| UNKNOWN                    |               | 5.56  | 2200.000                |   |
| UNKNOWN                    |               | 6.30  | 430.000                 |   |
| UNKNOWN                    |               | 6.45  | 170.000                 |   |
| UNKNOWN ACID               |               | 10.35 | 140.000                 |   |
| UNKNOWN ACID               |               | 12.47 | 150.000                 |   |
| UNKNOWN                    |               | 17.42 | 250.000                 |   |
| UNKNOWN                    |               | 17.51 | 390.000                 |   |
| UNKNOWN                    |               | 17.60 | 350.000                 |   |
| UNKNOWN                    |               | 17.73 | 170.000                 |   |
| UNKNOWN                    |               | 18.33 | 280.000                 |   |
| UNKNOWN                    |               | 18.48 | 650.000                 |   |
| UNKNOWN                    |               | 18.59 | 500.000                 |   |
| UNKNOWN PAH                |               | 20.37 | 3100.000                |   |
| UNKNOWN                    |               | 20.71 | 220.000                 |   |
| UNKNOWN                    |               | 21.32 | 160.000                 |   |
| UNKNOWN                    |               | 21.64 | 4100.000                |   |
| UNKNOWN                    |               | 22.24 | 4000.000                |   |
| UNKNOWN                    |               | 22.31 | 4000.000                |   |
| UNKNOWN                    |               | 24.39 | 130.000                 |   |
| UNKNOWN                    |               | 25.76 | 210.000                 |   |
| UNKNOWN                    |               | 26.14 | 180.000                 |   |
| UNKNOWN                    |               | 29.12 | 920.000                 |   |
| UNKNOWN                    |               | 30.06 | 170.000                 |   |
| UNKNOWN                    |               | 30.44 | 170.000                 |   |
| UNKNOWN                    |               | 30.58 | 280.000                 |   |
| UNKNOWN                    |               | 31.18 | 230.000                 |   |

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## Semivolatile Analysis Data - ECMN2

Tentatively Identified Compounds

LABORATORY: IEA-NJ

CASE NO: 26593  
SDG NO: ECML0

| CAS NUMBER                 | COMPOUND NAME | RT    | ESTIMATED CONCENTRATION | Q |
|----------------------------|---------------|-------|-------------------------|---|
| UNKNOWN                    |               | 4.30  | 150.000                 |   |
| UNKNOWN                    |               | 4.37  | 360.000                 |   |
| ALDOL CONDENSATION PRODUCT |               | 4.79  | 98000.000               |   |
| UNKNOWN ALCOHOL            |               | 5.20  | 130.000                 |   |
| UNKNOWN                    |               | 5.56  | 2000.000                |   |
| UNKNOWN                    |               | 6.30  | 380.000                 |   |
| UNKNOWN                    |               | 6.45  | 140.000                 |   |
| UNKNOWN ALCOHOL            |               | 8.36  | 83.000                  |   |
| UNKNOWN ACID               |               | 12.47 | 82.000                  |   |
| UNKNOWN                    |               | 21.21 | 81.000                  |   |
| UNKNOWN                    |               | 21.42 | 86.000                  |   |
| UNKNOWN                    |               | 21.47 | 150.000                 |   |
| UNKNOWN                    |               | 22.06 | 950.000                 |   |

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## Semivolatile Analysis Data - ECMN3

Tentatively Identified Compounds

LABORATORY: IEA-NJ

CASE NO: 26593  
SDG NO: ECML0

| CAS NUMBER                 | COMPOUND NAME | RT    | ESTIMATED CONCENTRATION | Q |
|----------------------------|---------------|-------|-------------------------|---|
| UNKNOWN                    |               | 4.30  | 160.000                 |   |
| UNKNOWN                    |               | 4.39  | 370.000                 |   |
| ALDOL CONDENSATION PRODUCT |               | 4.81  | 100000.000              |   |
| UNKNOWN ALCOHOL            |               | 5.21  | 150.000                 |   |
| UNKNOWN                    |               | 5.56  | 2200.000                |   |
| UNKNOWN                    |               | 6.29  | 410.000                 |   |
| UNKNOWN ACID               |               | 10.35 | 120.000                 |   |
| UNKNOWN ACID               |               | 12.47 | 140.000                 |   |
| UNKNOWN                    |               | 17.25 | 100.000                 |   |

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Semivolatile Analysis Data - SBLKH4  
Tentatively Identified Compounds

CASE NO: 26593  
SDG NO: ECML0

LABORATORY: IEA-NJ

| CAS NUMBER | COMPOUND NAME              | RT    | ESTIMATED CONCENTRATION | Q |
|------------|----------------------------|-------|-------------------------|---|
|            | 3-PENTEN-2-ONE, 4-METHYL-  | 3.93  | 96.000                  |   |
|            | UNKNOWN                    | 4.30  | 120.000                 |   |
|            | UNKNOWN                    | 4.41  | 320.000                 |   |
|            | ALDOL CONDENSATION PRODUCT | 4.81  | 81000.000               |   |
|            | UNKNOWN ALCOHOL            | 5.22  | 88.000                  |   |
|            | UNKNOWN                    | 5.57  | 2000.000                |   |
|            | UNKNOWN                    | 6.30  | 360.000                 |   |
|            | UNKNOWN                    | 6.45  | 150.000                 |   |
|            | UNKNOWN ALCOHOL            | 8.36  | 76.000                  |   |
|            | UNKNOWN ACID               | 10.35 | 80.000                  |   |
|            | UNKNOWN ACID               | 12.47 | 100.000                 |   |

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Semivolatile Analysis Data - ECMN0  
Tentatively Identified Compounds

CASE NO: 26593  
SDG NO: ECML0

LABORATORY: IEA-NJ

| CAS NUMBER | COMPOUND NAME              | RT    | ESTIMATED CONCENTRATION | Q |
|------------|----------------------------|-------|-------------------------|---|
|            | 3-PENTEN-2-ONE, 4-METHYL-  | 3.93  | 120.000                 |   |
|            | UNKNOWN                    | 4.29  | 260.000                 |   |
|            | UNKNOWN                    | 4.44  | 340.000                 |   |
|            | ALDOL CONDENSATION PRODUCT | 4.82  | 87000.000               |   |
|            | UNKNOWN                    | 4.85  | 17000.000               |   |
|            | UNKNOWN ALCOHOL            | 5.22  | 120.000                 |   |
|            | UNKNOWN                    | 6.30  | 420.000                 |   |
|            | UNKNOWN                    | 6.45  | 97.000                  |   |
|            | UNKNOWN ALCOHOL            | 8.36  | 96.000                  |   |
|            | UNKNOWN ACID               | 10.35 | 100.000                 |   |
|            | UNKNOWN ACID               | 12.47 | 110.000                 |   |
|            | UNKNOWN                    | 22.22 | 83.000                  |   |
|            | UNKNOWN                    | 28.68 | 120.000                 |   |
|            | UNKNOWN                    | 29.08 | 91.000                  |   |

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Semivolatile Analysis Data - ECMN1  
Tentatively Identified Compounds

CASE NO: 26593  
SDG NO: ECML0

LABORATORY: IEA-NJ

| CAS NUMBER | COMPOUND NAME              | RT    | ESTIMATED CONCENTRATION | Q |
|------------|----------------------------|-------|-------------------------|---|
|            | 3-PENTEN-2-ONE, 4-METHYL-  | 3.93  | 120.000                 |   |
|            | UNKNOWN                    | 4.30  | 270.000                 |   |
|            | UNKNOWN                    | 4.48  | 320.000                 |   |
|            | ALDOL CONDENSATION PRODUCT | 4.80  | 79000.000               |   |
|            | UNKNOWN ALCOHOL            | 5.23  | 150.000                 |   |
|            | UNKNOWN                    | 5.58  | 3000.000                |   |
|            | UNKNOWN                    | 6.09  | 83.000                  |   |
|            | UNKNOWN                    | 6.31  | 550.000                 |   |
|            | UNKNOWN                    | 6.45  | 220.000                 |   |
|            | UNKNOWN ALCOHOL            | 8.36  | 120.000                 |   |
|            | UNKNOWN ACID               | 12.47 | 110.000                 |   |
|            | UNKNOWN ACID               | 15.71 | 110.000                 |   |
|            | UNKNOWN ACID               | 19.81 | 120.000                 |   |
|            | UNKNOWN                    | 21.23 | 73.000                  |   |
|            | UNKNOWN                    | 22.01 | 220.000                 |   |
|            | UNKNOWN CARBOXYLIC ACID    | 22.55 | 93.000                  |   |
|            | UNKNOWN CARBOXYLIC ACID    | 23.39 | 74.000                  |   |
|            | UNKNOWN                    | 25.76 | 73.000                  |   |
|            | UNKNOWN                    | 29.08 | 250.000                 |   |
|            | UNKNOWN                    | 31.40 | 95.000                  |   |

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Semivolatiles Analysis Data - ECMK8  
Tentatively Identified Compounds

CASE NO: 26593  
SDG NO: ECML0

LABORATORY: IEA-NJ

| CAS NUMBER | COMPOUND NAME              | RT    | ESTIMATED CONCENTRATION | Q |
|------------|----------------------------|-------|-------------------------|---|
|            | UNKNOWN                    | 3.15  | 430.000                 |   |
|            | UNKNOWN ALCOHOL            | 4.13  | 450.000                 |   |
|            | UNKNOWN                    | 4.40  | 300.000                 |   |
|            | ALDOL CONDENSATION PRODUCT | 4.84  | 40000.000               |   |
|            | UNKNOWN                    | 5.60  | 1200.000                |   |
|            | UNKNOWN ALCOHOL            | 6.35  | 240.000                 |   |
|            | UNKNOWN ACID               | 15.63 | 92.000                  |   |
|            | UNKNOWN ACID               | 15.78 | 380.000                 |   |
|            | UNKNOWN PAH                | 15.86 | 120.000                 |   |
|            | UNKNOWN PAH                | 16.04 | 85.000                  |   |
|            | UNKNOWN                    | 17.57 | 75.000                  |   |
|            | UNKNOWN PAH                | 17.75 | 500.000                 |   |
|            | UNKNOWN PAH                | 18.40 | 110.000                 |   |
|            | UNKNOWN PAH                | 19.78 | 160.000                 |   |
|            | UNKNOWN ALCOHOL            | 22.34 | 390.000                 |   |
|            | UNKNOWN PAH                | 23.22 | 140.000                 |   |
|            | UNKNOWN PAH                | 23.79 | 1100.000                |   |
|            | UNKNOWN PAH                | 24.22 | 410.000                 |   |
|            | UNKNOWN                    | 25.69 | 190.000                 |   |
|            | UNKNOWN                    | 25.93 | 140.000                 |   |
|            | UNKNOWN                    | 26.68 | 180.000                 |   |
|            | UNKNOWN PAH                | 27.84 | 460.000                 |   |
|            | UNKNOWN                    | 28.00 | 260.000                 |   |
|            | UNKNOWN PAH                | 28.54 | 170.000                 |   |
|            | UNKNOWN PAH                | 28.86 | 300.000                 |   |
|            | UNKNOWN PAH                | 30.26 | 830.000                 |   |

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Semivolatiles Analysis Data - ECMK9  
Tentatively Identified Compounds

CASE NO: 26593  
SDG NO: ECML0

LABORATORY: IEA-NJ

| CAS NUMBER | COMPOUND NAME              | RT    | ESTIMATED CONCENTRATION | Q |
|------------|----------------------------|-------|-------------------------|---|
|            | UNKNOWN                    | 3.14  | 210.000                 |   |
|            | UNKNOWN ALCOHOL            | 4.12  | 180.000                 |   |
|            | UNKNOWN                    | 4.40  | 260.000                 |   |
|            | ALDOL CONDENSATION PRODUCT | 4.83  | 34000.000               |   |
|            | UNKNOWN                    | 5.59  | 980.000                 |   |
|            | UNKNOWN ALCOHOL            | 6.34  | 210.000                 |   |
|            | UNKNOWN ACID               | 15.77 | 220.000                 |   |
|            | UNKNOWN PAH                | 15.86 | 81.000                  |   |
|            | UNKNOWN PAH                | 16.04 | 86.000                  |   |
|            | UNKNOWN                    | 17.57 | 140.000                 |   |
|            | UNKNOWN ACID               | 19.02 | 110.000                 |   |
|            | UNKNOWN                    | 20.04 | 80.000                  |   |
|            | UNKNOWN                    | 20.59 | 79.000                  |   |
|            | UNKNOWN                    | 21.88 | 81.000                  |   |
|            | UNKNOWN ALCOHOL            | 22.34 | 270.000                 |   |
|            | UNKNOWN PAH                | 22.54 | 990.000                 |   |
|            | UNKNOWN PAH                | 23.20 | 200.000                 |   |
|            | UNKNOWN PAH                | 23.76 | 270.000                 |   |
|            | UNKNOWN PAH                | 24.21 | 190.000                 |   |
|            | UNKNOWN PAH                | 28.98 | 130.000                 |   |
|            | UNKNOWN PAH                | 30.23 | 130.000                 |   |

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Semivolatile Analysis Data - ECMM7  
Tentatively Identified Compounds

CASE NO: 26593  
SDG NO: ECML0

LABORATORY: IEA-NJ

| CAS NUMBER | COMPOUND NAME              | RT    | ESTIMATED CONCENTRATION | Q |
|------------|----------------------------|-------|-------------------------|---|
|            | UNKNOWN                    | 4.36  | 340.000                 |   |
|            | ALDOL CONDENSATION PRODUCT | 4.82  | 42000.000               |   |
|            | UNKNOWN ALCOHOL            | 5.25  | 93.000                  |   |
|            | UNKNOWN                    | 5.60  | 1200.000                |   |
|            | UNKNOWN ALCOHOL            | 6.34  | 260.000                 |   |
|            | UNKNOWN AROMATIC           | 7.40  | 140.000                 |   |
|            | UNKNOWN ACID               | 10.22 | 78.000                  |   |
|            | UNKNOWN ACID               | 10.41 | 110.000                 |   |
|            | UNKNOWN ACID               | 12.53 | 73.000                  |   |
|            | UNKNOWN ALCOHOL            | 13.74 | 76.000                  |   |
|            | UNKNOWN ACID               | 15.77 | 410.000                 |   |
|            | UNKNOWN                    | 16.21 | 89.000                  |   |
|            | UNKNOWN PAH                | 16.69 | 300.000                 |   |
|            | UNKNOWN ACID               | 17.23 | 290.000                 |   |
|            | UNKNOWN PAH                | 17.31 | 110.000                 |   |
|            | UNKNOWN ACID               | 17.37 | 260.000                 |   |
|            | UNKNOWN ALCOHOL            | 17.56 | 690.000                 |   |
|            | UNKNOWN ALCOHOL            | 17.71 | 87.000                  |   |
|            | UNKNOWN PAH                | 18.29 | 160.000                 |   |
|            | UNKNOWN                    | 18.73 | 99.000                  |   |
|            | UNKNOWN                    | 18.81 | 170.000                 |   |
|            | UNKNOWN ACID               | 19.01 | 540.000                 |   |
|            | UNKNOWN                    | 21.86 | 320.000                 |   |
|            | UNKNOWN ALCOHOL            | 22.33 | 130.000                 |   |
|            | UNKNOWN                    | 22.46 | 180.000                 |   |
|            | UNKNOWN                    | 22.52 | 140.000                 |   |
|            | UNKNOWN                    | 23.17 | 130.000                 |   |
|            | UNKNOWN ALCOHOL            | 28.49 | 89.000                  |   |
|            | UNKNOWN                    | 29.41 | 87.000                  |   |
|            | UNKNOWN                    | 29.49 | 110.000                 |   |
|            | UNKNOWN ALCOHOL            | 30.22 | 500.000                 |   |
|            | UNKNOWN                    | 30.34 | 100.000                 |   |
|            | UNKNOWN                    | 30.53 | 240.000                 |   |
|            | UNKNOWN AROMATIC           | 31.41 | 170.000                 |   |

Semivolatile Analysis Data - ECMM6  
Tentatively Identified Compounds

CASE NO: 26593  
SDG NO: ECML0

LABORATORY: IEA-NJ

| CAS NUMBER | COMPOUND NAME              | RT    | ESTIMATED CONCENTRATION | Q |
|------------|----------------------------|-------|-------------------------|---|
|            | UNKNOWN                    | 4.42  | 200.000                 |   |
|            | ALDOL CONDENSATION PRODUCT | 4.84  | 47000.000               |   |
|            | UNKNOWN ALCOHOL            | 5.25  | 100.000                 |   |
|            | UNKNOWN                    | 5.60  | 1400.000                |   |
|            | UNKNOWN ALCOHOL            | 6.35  | 280.000                 |   |
|            | UNKNOWN ALCOHOL            | 6.49  | 95.000                  |   |
|            | UNKNOWN ACID               | 10.22 | 88.000                  |   |
|            | UNKNOWN ACID               | 12.54 | 75.000                  |   |
|            | UNKNOWN ACID               | 15.77 | 260.000                 |   |
|            | UNKNOWN ALCOHOL            | 17.04 | 150.000                 |   |
|            | UNKNOWN PAH                | 17.25 | 130.000                 |   |
|            | UNKNOWN ACID               | 17.37 | 95.000                  |   |
|            | UNKNOWN                    | 17.57 | 330.000                 |   |
|            | UNKNOWN                    | 18.72 | 120.000                 |   |
|            | UNKNOWN                    | 18.81 | 78.000                  |   |
|            | UNKNOWN ACID               | 19.01 | 260.000                 |   |
|            | UNKNOWN                    | 21.86 | 330.000                 |   |
|            | UNKNOWN ALCOHOL            | 22.34 | 170.000                 |   |
|            | UNKNOWN                    | 22.53 | 670.000                 |   |
|            | UNKNOWN ALCOHOL            | 23.16 | 590.000                 |   |
|            | UNKNOWN                    | 24.82 | 140.000                 |   |
|            | UNKNOWN ALCOHOL            | 25.68 | 100.000                 |   |
|            | UNKNOWN KETONE             | 25.91 | 85.000                  |   |
|            | UNKNOWN                    | 27.98 | 100.000                 |   |
|            | UNKNOWN                    | 28.47 | 88.000                  |   |
|            | UNKNOWN                    | 29.43 | 74.000                  |   |
|            | UNKNOWN ALCOHOL            | 30.23 | 570.000                 |   |
|            | UNKNOWN KETONE             | 31.21 | 87.000                  |   |
|            | UNKNOWN                    | 31.42 | 95.000                  |   |

Semivolatile Analysis Data - ECML7  
Tentatively Identified Compounds

CASE NO: 26593  
SDG NO: ECML0

LABORATORY: IEA-NJ

| CAS NUMBER                 | COMPOUND NAME | RT    | ESTIMATED CONCENTRATION | Q |
|----------------------------|---------------|-------|-------------------------|---|
| UNKNOWN                    |               | 4.40  | 270.000                 |   |
| ALDOL CONDENSATION PRODUCT |               | 4.84  | 34000.000               |   |
| UNKNOWN ALCOHOL            |               | 5.27  | 80.000                  |   |
| UNKNOWN                    |               | 5.62  | 1000.000                |   |
| UNKNOWN ALCOHOL            |               | 6.37  | 210.000                 |   |
| UNKNOWN ALCOHOL            |               | 6.52  | 88.000                  |   |
| UNKNOWN ACID               |               | 10.24 | 98.000                  |   |
| UNKNOWN ACID               |               | 10.43 | 140.000                 |   |
| UNKNOWN ACID               |               | 15.78 | 82.000                  |   |
| UNKNOWN PAH                |               | 18.31 | 120.000                 |   |
| UNKNOWN ALCOHOL            |               | 19.79 | 99.000                  |   |
| UNKNOWN                    |               | 22.51 | 81.000                  |   |
| UNKNOWN                    |               | 22.55 | 79.000                  |   |
| UNKNOWN                    |               | 28.97 | 1700.000                |   |
| UNKNOWN PAH                |               | 29.46 | 160.000                 |   |
| UNKNOWN                    |               | 30.27 | 150.000                 |   |

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Semivolatile Analysis Data - ECML8  
Tentatively Identified Compounds

CASE NO: 26593  
SDG NO: ECML0

LABORATORY: IEA-NJ

| CAS NUMBER                 | COMPOUND NAME | RT    | ESTIMATED CONCENTRATION | Q |
|----------------------------|---------------|-------|-------------------------|---|
| UNKNOWN                    |               | 4.39  | 310.000                 |   |
| ALDOL CONDENSATION PRODUCT |               | 4.81  | 44000.000               |   |
| UNKNOWN ALCOHOL            |               | 5.25  | 96.000                  |   |
| UNKNOWN                    |               | 5.59  | 1200.000                |   |
| UNKNOWN ALCOHOL            |               | 6.33  | 240.000                 |   |
| UNKNOWN ACID               |               | 10.22 | 99.000                  |   |
| UNKNOWN ACID               |               | 15.77 | 120.000                 |   |
| UNKNOWN ACID               |               | 17.57 | 350.000                 |   |
| UNKNOWN ACID               |               | 19.00 | 280.000                 |   |
| UNKNOWN ALCOHOL            |               | 22.33 | 88.000                  |   |
| UNKNOWN                    |               | 28.88 | 560.000                 |   |
| UNKNOWN ALCOHOL            |               | 30.20 | 270.000                 |   |

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Semivolatile Analysis Data - ECML9  
Tentatively Identified Compounds

CASE NO: 26593  
SDG NO: ECML0

LABORATORY: IEA-NJ

| CAS NUMBER                 | COMPOUND NAME | RT    | ESTIMATED CONCENTRATION | Q |
|----------------------------|---------------|-------|-------------------------|---|
| UNKNOWN ALCOHOL            |               | 4.12  | 160.000                 |   |
| UNKNOWN                    |               | 4.40  | 280.000                 |   |
| ALDOL CONDENSATION PRODUCT |               | 4.83  | 36000.000               |   |
| UNKNOWN ALCOHOL            |               | 5.25  | 81.000                  |   |
| UNKNOWN                    |               | 5.60  | 1000.000                |   |
| UNKNOWN ALCOHOL            |               | 6.35  | 210.000                 |   |
| UNKNOWN ACID               |               | 10.22 | 120.000                 |   |
| UNKNOWN ACID               |               | 12.54 | 92.000                  |   |
| UNKNOWN ACID               |               | 15.78 | 270.000                 |   |
| UNKNOWN PAH                |               | 17.25 | 110.000                 |   |
| UNKNOWN                    |               | 18.71 | 80.000                  |   |
| UNKNOWN ALCOHOL            |               | 22.34 | 290.000                 |   |
| UNKNOWN                    |               | 22.53 | 400.000                 |   |
| UNKNOWN                    |               | 23.17 | 500.000                 |   |
| UNKNOWN                    |               | 24.81 | 130.000                 |   |
| UNKNOWN KETONE             |               | 25.92 | 82.000                  |   |
| UNKNOWN                    |               | 30.22 | 340.000                 |   |
| UNKNOWN AROMATIC           |               | 31.40 | 76.000                  |   |

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Semivolatile Analysis Data - ECML5  
Tentatively Identified Compounds

CASE NO: 26593  
SDG NO: ECML0

LABORATORY: IEA-NJ

| AS<br>NUMBER | COMPOUND<br>NAME           | RT    | ESTIMATED<br>CONCENTRATION | Q |
|--------------|----------------------------|-------|----------------------------|---|
|              | UNKNOWN ALCOHOL            | 4.11  | 340.000                    |   |
|              | UNKNOWN                    | 4.38  | 260.000                    |   |
|              | ALDOL CONDENSATION PRODUCT | 4.83  | 32000.000                  |   |
|              | UNKNOWN                    | 5.62  | 950.000                    |   |
|              | UNKNOWN ALCOHOL            | 6.37  | 200.000                    |   |
|              | UNKNOWN ALCOHOL            | 6.53  | 84.000                     |   |
|              | UNKNOWN ACID               | 10.44 | 120.000                    |   |
|              | UNKNOWN ACID               | 12.55 | 73.000                     |   |
|              | UNKNOWN ACID               | 15.78 | 88.000                     |   |
|              | UNKNOWN PAH                | 17.29 | 230.000                    |   |
|              | UNKNOWN ACID               | 20.10 | 430.000                    |   |
|              | UNKNOWN                    | 21.95 | 210.000                    |   |
|              | UNKNOWN                    | 22.56 | 160.000                    |   |
|              | UNKNOWN ALCOHOL            | 23.37 | 92.000                     |   |
|              | UNKNOWN                    | 23.62 | 82.000                     |   |
|              | UNKNOWN                    | 25.18 | 87.000                     |   |
|              | UNKNOWN                    | 26.20 | 360.000                    |   |
|              | UNKNOWN PAH                | 27.26 | 91.000                     |   |
|              | UNKNOWN                    | 27.46 | 370.000                    |   |
|              | UNKNOWN                    | 29.21 | 130.000                    |   |
|              | UNKNOWN PAH                | 29.44 | 160.000                    |   |
|              | UNKNOWN ALCOHOL            | 30.30 | 130.000                    |   |

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Semivolatile Analysis Data - ECML6  
Tentatively Identified Compounds

CASE NO: 26593  
SDG NO: ECML0

LABORATORY: IEA-NJ

| AS<br>NUMBER | COMPOUND<br>NAME           | RT    | ESTIMATED<br>CONCENTRATION | Q |
|--------------|----------------------------|-------|----------------------------|---|
|              | UNKNOWN                    | 4.43  | 260.000                    |   |
|              | ALDOL CONDENSATION PRODUCT | 4.85  | 34000.000                  |   |
|              | UNKNOWN ALCOHOL            | 5.27  | 83.000                     |   |
|              | UNKNOWN                    | 5.63  | 1000.000                   |   |
|              | UNKNOWN ALCOHOL            | 6.37  | 210.000                    |   |
|              | UNKNOWN ALCOHOL            | 6.52  | 92.000                     |   |
|              | UNKNOWN ACID               | 10.26 | 82.000                     |   |
|              | UNKNOWN ACID               | 10.44 | 120.000                    |   |
|              | UNKNOWN ACID               | 15.78 | 86.000                     |   |
|              | UNKNOWN                    | 22.00 | 100.000                    |   |
|              | UNKNOWN PAH                | 28.96 | 410.000                    |   |
|              | UNKNOWN ALCOHOL            | 30.27 | 130.000                    |   |

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Semivolatile Analysis Data - ECML3  
Tentatively Identified Compounds

CASE NO: 26593  
SDG NO: ECML0

LABORATORY: IEA-NJ

| CAS NUMBER | COMPOUND NAME              | RT    | ESTIMATED CONCENTRATION | Q |
|------------|----------------------------|-------|-------------------------|---|
|            | UNKNOWN                    | 3.18  | 520.000                 |   |
|            | UNKNOWN ALCOHOL            | 4.10  | 1100.000                |   |
|            | UNKNOWN                    | 4.30  | 96.000                  |   |
|            | UNKNOWN                    | 4.38  | 240.000                 |   |
|            | ALDOL CONDENSATION PRODUCT | 4.83  | 33000.000               |   |
|            | UNKNOWN ALCOHOL            | 5.28  | 97.000                  |   |
|            | UNKNOWN                    | 5.62  | 950.000                 |   |
|            | UNKNOWN ALCOHOL            | 6.37  | 180.000                 |   |
|            | UNKNOWN ACID               | 10.25 | 95.000                  |   |
|            | UNKNOWN ACID               | 10.44 | 160.000                 |   |
|            | UNKNOWN                    | 11.43 | 90.000                  |   |
|            | UNKNOWN ACID               | 15.78 | 81.000                  |   |
|            | UNKNOWN KETONE             | 16.30 | 190.000                 |   |
|            | UNKNOWN                    | 16.71 | 120.000                 |   |
|            | UNKNOWN KETONE             | 16.88 | 91.000                  |   |
|            | UNKNOWN                    | 17.35 | 210.000                 |   |
|            | UNKNOWN PAH                | 18.31 | 500.000                 |   |
|            | UNKNOWN ALCOHOL            | 18.68 | 140.000                 |   |
|            | UNKNOWN                    | 18.94 | 280.000                 |   |
|            | UNKNOWN                    | 19.09 | 89.000                  |   |
|            | UNKNOWN                    | 19.70 | 110.000                 |   |
|            | UNKNOWN                    | 22.57 | 110.000                 |   |
|            | UNKNOWN                    | 23.12 | 120.000                 |   |
|            | UNKNOWN                    | 24.83 | 82.000                  |   |
|            | UNKNOWN                    | 25.18 | 110.000                 |   |
|            | UNKNOWN PAH                | 26.19 | 170.000                 |   |
|            | UNKNOWN ALCOHOL            | 27.46 | 180.000                 |   |
|            | UNKNOWN PAH                | 29.21 | 100.000                 |   |
|            | UNKNOWN                    | 29.42 | 130.000                 |   |
|            | UNKNOWN                    | 30.37 | 310.000                 |   |

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Semivolatile Analysis Data - ECML4  
Tentatively Identified Compounds

CASE NO: 26593  
SDG NO: ECML0

LABORATORY: IEA-NJ

| CAS NUMBER | COMPOUND NAME              | RT    | ESTIMATED CONCENTRATION | Q |
|------------|----------------------------|-------|-------------------------|---|
|            | UNKNOWN ALCOHOL            | 4.12  | 730.000                 |   |
|            | UNKNOWN                    | 4.39  | 240.000                 |   |
|            | ALDOL CONDENSATION PRODUCT | 4.84  | 30000.000               |   |
|            | UNKNOWN ALCOHOL            | 5.27  | 72.000                  |   |
|            | UNKNOWN                    | 5.63  | 890.000                 |   |
|            | UNKNOWN ALCOHOL            | 6.37  | 200.000                 |   |
|            | UNKNOWN ALCOHOL            | 6.52  | 86.000                  |   |
|            | UNKNOWN AROMATIC           | 7.43  | 80.000                  |   |
|            | UNKNOWN ACID               | 10.44 | 89.000                  |   |
|            | UNKNOWN ACID               | 15.79 | 100.000                 |   |
|            | UNKNOWN                    | 20.79 | 260.000                 |   |
|            | UNKNOWN                    | 22.75 | 3400.000                |   |
|            | UNKNOWN PAH                | 23.77 | 130.000                 |   |
|            | UNKNOWN                    | 24.56 | 84.000                  |   |
|            | UNKNOWN                    | 25.16 | 88.000                  |   |
|            | UNKNOWN                    | 26.18 | 98.000                  |   |
|            | UNKNOWN PAH                | 27.45 | 88.000                  |   |
|            | UNKNOWN                    | 30.27 | 160.000                 |   |

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Semivolatile Analysis Data - ECML1  
Tentatively Identified Compounds

CASE NO: 26593  
SDG NO: ECML0

LABORATORY: IEA-NJ

| CAS NUMBER | COMPOUND NAME              | RT    | ESTIMATED CONCENTRATION | Q |
|------------|----------------------------|-------|-------------------------|---|
|            | UNKNOWN ALCOHOL            | 4.16  | 470.000                 |   |
|            | UNKNOWN                    | 4.41  | 270.000                 |   |
|            | ALDOL CONDENSATION PRODUCT | 4.85  | 34000.000               |   |
|            | UNKNOWN ALCOHOL            | 5.29  | 82.000                  |   |
|            | UNKNOWN                    | 5.63  | 1000.000                |   |
|            | UNKNOWN ALCOHOL            | 6.37  | 220.000                 |   |
|            | UNKNOWN ALCOHOL            | 6.52  | 100.000                 |   |
|            | UNKNOWN ACID               | 10.26 | 120.000                 |   |
|            | UNKNOWN ACID               | 10.43 | 180.000                 |   |
|            | UNKNOWN ACID               | 12.55 | 97.000                  |   |
|            | UNKNOWN ACID               | 15.79 | 90.000                  |   |
|            | UNKNOWN PAH                | 16.07 | 95.000                  |   |
|            | UNKNOWN ALCOHOL            | 22.36 | 130.000                 |   |
|            | UNKNOWN                    | 22.49 | 120.000                 |   |
|            | UNKNOWN                    | 23.01 | 180.000                 |   |
|            | UNKNOWN PAH                | 23.79 | 250.000                 |   |
|            | UNKNOWN PAH                | 24.22 | 120.000                 |   |
|            | UNKNOWN PAH                | 30.25 | 85.000                  |   |
|            | UNKNOWN                    | 30.29 | 92.000                  |   |
|            | UNKNOWN                    | 30.88 | 640.000                 |   |

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Semivolatile Analysis Data - ECML2  
Tentatively Identified Compounds

CASE NO: 26593  
SDG NO: ECML0

LABORATORY: IEA-NJ

| CAS NUMBER | COMPOUND NAME              | RT    | ESTIMATED CONCENTRATION | Q |
|------------|----------------------------|-------|-------------------------|---|
|            | UNKNOWN                    | 3.18  | 290.000                 |   |
|            | UNKNOWN ALCOHOL            | 4.11  | 740.000                 |   |
|            | UNKNOWN                    | 4.40  | 240.000                 |   |
|            | ALDOL CONDENSATION PRODUCT | 4.83  | 29000.000               |   |
|            | UNKNOWN                    | 5.62  | 880.000                 |   |
|            | UNKNOWN ALCOHOL            | 6.37  | 180.000                 |   |
|            | UNKNOWN ACID               | 10.44 | 120.000                 |   |
|            | UNKNOWN ACID               | 15.79 | 100.000                 |   |
|            | UNKNOWN PAH                | 15.88 | 130.000                 |   |
|            | UNKNOWN PAH                | 16.06 | 240.000                 |   |
|            | UNKNOWN PAH                | 16.93 | 190.000                 |   |
|            | UNKNOWN PAH                | 17.13 | 100.000                 |   |
|            | UNKNOWN PAH                | 18.20 | 100.000                 |   |
|            | UNKNOWN PAH                | 18.43 | 170.000                 |   |
|            | UNKNOWN PAH                | 19.81 | 110.000                 |   |
|            | UNKNOWN PAH                | 20.50 | 74.000                  |   |
|            | UNKNOWN PAH                | 21.16 | 88.000                  |   |
|            | UNKNOWN PAH                | 23.26 | 230.000                 |   |
|            | UNKNOWN PAH                | 23.81 | 760.000                 |   |
|            | UNKNOWN PAH                | 24.25 | 400.000                 |   |
|            | UNKNOWN                    | 25.18 | 140.000                 |   |
|            | UNKNOWN PAH                | 27.88 | 330.000                 |   |
|            | UNKNOWN PAH                | 28.90 | 220.000                 |   |
|            | UNKNOWN PAH                | 29.05 | 300.000                 |   |
|            | UNKNOWN PAH                | 30.35 | 230.000                 |   |

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Semivolatile Analysis Data - SBLKH1  
Tentatively Identified Compounds

CASE NO: 26593  
SDG NO: ECML0

LABORATORY: IEA-NJ

| CAS NUMBER | COMPOUND NAME              | RT    | ESTIMATED CONCENTRATION | q |
|------------|----------------------------|-------|-------------------------|---|
|            | UNKNOWN ALCOHOL            | 4.19  | 180.000                 |   |
|            | UNKNOWN                    | 4.43  | 360.000                 |   |
|            | ALDOL CONDENSATION PRODUCT | 4.86  | 43000.000               |   |
|            | UNKNOWN ALCOHOL            | 5.27  | 100.000                 |   |
|            | UNKNOWN                    | 5.63  | 1400.000                |   |
|            | UNKNOWN ALCOHOL            | 6.37  | 300.000                 |   |
|            | UNKNOWN ALCOHOL            | 6.52  | 140.000                 |   |
|            | UNKNOWN ACID               | 10.44 | 100.000                 |   |
|            | UNKNOWN                    | 17.46 | 73.000                  |   |
|            | UNKNOWN                    | 18.73 | 100.000                 |   |
|            | UNKNOWN ALCOHOL            | 22.36 | 130.000                 |   |

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Semivolatile Analysis Data - ECML0  
Tentatively Identified Compounds

CASE NO: 26593  
SDG NO: ECML0

LABORATORY: IEA-NJ

| CAS NUMBER | COMPOUND NAME              | RT    | ESTIMATED CONCENTRATION | q |
|------------|----------------------------|-------|-------------------------|---|
|            | UNKNOWN                    | 3.19  | 110.000                 |   |
|            | UNKNOWN ALCOHOL            | 4.12  | 680.000                 |   |
|            | UNKNOWN                    | 4.41  | 220.000                 |   |
|            | ALDOL CONDENSATION PRODUCT | 4.84  | 29000.000               |   |
|            | UNKNOWN                    | 5.63  | 890.000                 |   |
|            | UNKNOWN ALCOHOL            | 6.37  | 180.000                 |   |
|            | UNKNOWN ACID               | 10.44 | 120.000                 |   |
|            | UNKNOWN                    | 12.48 | 140.000                 |   |
|            | UNKNOWN                    | 15.60 | 87.000                  |   |
|            | UNKNOWN ACID               | 15.79 | 67.000                  |   |
|            | UNKNOWN PAH                | 16.09 | 110.000                 |   |
|            | UNKNOWN PAH                | 18.43 | 110.000                 |   |
|            | UNKNOWN PAH                | 20.56 | 82.000                  |   |
|            | UNKNOWN PAH                | 23.25 | 120.000                 |   |
|            | UNKNOWN PAH                | 23.80 | 410.000                 |   |
|            | UNKNOWN PAH                | 24.25 | 270.000                 |   |
|            | UNKNOWN PAH                | 27.84 | 130.000                 |   |
|            | UNKNOWN PAH                | 29.03 | 180.000                 |   |
|            | UNKNOWN PAH                | 30.31 | 160.000                 |   |
|            | UNKNOWN                    | 31.36 | 4400.000                |   |

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CADRE Data Qualifier Sheet

Qualifiers

Data Qualifier Definitions

- U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- J The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.
- UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the action limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
- N The analysis indicates the present of an analyte for which there is presumptive evidence to make a tentative identification.
- NJ The analysis indicates the present of an analyte for which there is presumptive evidence to make a tentative identification and the associated numerical value represents its approximate concentration.
- R The data are unusable. (The compound may or may not be present)
- H Sample result is estimated and biased high.
- L Sample result is estimated and biased low.

Case Number : 26593  
 Site Name: Himco Dump (IN)

SDG Number: ECML0  
 Laboratory: AEN (IEA)

Indeno(1,2,3-cd)pyrene, Benzo(g,h,i)perylene

ECMN7

Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, bis(2-Ethylhexyl)phthalate,  
 Benzo(b)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Benzo(g,h,i)perylene

## 11. SYSTEM PERFORMANCE

GC/MS baseline indicated acceptable performance.

## 12. ADDITIONAL INFORMATION ECML0-9, ECMM6-7, ECMK8-9, ECMN0-4, ECMN7

Below is the summary of the pH for the samples of this dataset:

| Sample ID | pH  |
|-----------|-----|
| ECML0     | 7.3 |
| ECML1     | 7.0 |
| ECML2     | 7.6 |
| ECML3     | 7.6 |
| ECML4     | 7.8 |
| ECML5     | 7.9 |
| ECML6     | 6.1 |
| ECML7     | 6.0 |
| ECML8     | 6.3 |
| ECML9     | 5.7 |
| ECMM6     | 5.6 |
| ECMM7     | 5.5 |
| ECMK8     | 7.2 |
| ECMK9     | 7.7 |
| ECMN0     | 5.4 |
| ECMN1     | 5.1 |
| ECMN2     | 4.9 |
| ECMN3     | 4.7 |
| ECMN4     | 6.8 |
| ECMN7     | 6.6 |

No flags were entered for the SVOA TIC results for the CADRE report. Please refer to Form I SVOA for the final flags of the SVOA TIC results.

No method blank reports were printed out.

Prepared By: Steffanie Tobin (Lockheed/ESAT)  
 Date: November 16, 1998

Case Number : 26593

SDG Number: ECML0

Site Name: Himco Dump (IN)

Laboratory: AEN (IEA)

## ECML0

Naphthalene, Acenaphthylene, Phenanthrene, Anthracene, Benzo(a)anthracene,  
Chrysene, Benzo(k)fluoranthene, Dibenz(a,h)anthracene

## ECML1

Phenanthrene, Anthracene, Carbazole, Benzo(a)anthracene, Chrysene, Benzo(k)fluoranthene  
Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Dibenz(a,h)anthracene, Benzo(g,h,i)perylene

## ECML2

Naphthalene, 2-Methylnaphthalene, Acenaphthylene, Acenaphthene  
Fluorene, Anthracene, Carbazole, Benzo(k)fluoranthene, Dibenz(a,h)anthracene

## ECML3

Phenanthrene, Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene,  
Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Benzo(g,h,i)perylene

## ECML4

Phenanthrene, Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene,  
Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Benzo(g,h,i)perylene

## ECML4MS

Naphthalene, Dimethylphthalate, Phenanthrene, Anthracene  
Benzo(k)fluoranthene, Indeno(1,2,3-cd)pyrene, Dibenz(a,h)anthracene

## ECML4MSD

Phenanthrene, Fluoranthene, Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene,  
Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Benzo(g,h,i)perylene

## ECML5

Phenanthrene, Fluoranthene, Pyrene, Benzo(a)anthracene, Chrysene, Benzo(b)fluoranthene,  
Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Benzo(g,h,i)perylene

## ECML6, ECML7, ECML8, ECMM6

Benzo(g,h,i)perylene

## ECMN2, SBLKH1

bis(2-Ethylhexyl)phthalate

## ECMN0, ECMN1

bis(2-Ethylhexyl)phthalate, Di-n-octylphthalate

## ECMN4

Fluoranthene, Pyrene, Butylbenzylphthalate, Benzo(a)anthracene  
Chrysene, bis(2-Ethylhexyl)phthalate, Benzo(b)fluoranthene, Benzo(a)pyrene

Prepared By: Steffanie Tobin (Lockheed/ESAT)Date: November 16, 1998

Case Number : 26593  
 Site Name: Himco Dump (IN)

SDG Number: ECML0  
 Laboratory: AEN (IEA)

## 8. INTERNAL STANDARDS

The following volatile samples have internal standard area counts that are outside the lower limit of primary criteria. Hits are qualified "J" and non-detects are qualified "UJ".

ECMN7, ECMN7RE

Chloromethane, Bromomethane, Vinyl Chloride, Chloroethane  
 Methylene Chloride, Acetone, Carbon Disulfide, 1,1-Dichloroethene  
 1,1-Dichloroethane, 1,2-Dichloroethene (total), Chloroform, 1,2-Dichloroethane  
 2-Butanone, 1,1,1-Trichloroethane, Carbon Tetrachloride, Bromodichloromethane  
 1,2-Dichloropropane, cis-1,3-Dichloropropene, Trichloroethene, Dibromochloromethane  
 1,1,2-Trichloroethane, Benzene, trans-1,3-Dichloropropene, Bromoform

The following volatile samples have internal standard area counts outside expanded criteria. Hits are qualified "J" and non-detects are qualified "R".

ECMN7, ECMN7RE

4-Methyl-2-Pentanone, 2-Hexanone, Tetrachloroethene, 1,1,2,2-Tetrachloroethane  
 Toluene, Chlorobenzene, Ethylbenzene, Styrene, Xylene (total)

## 9. COMPOUND IDENTIFICATION

After reviewing the mass spectra and chromatograms, it appears that all VOA and SVOA compounds were properly identified.

## 10. COMPOUND QUANTITATION AND REPORTED DETECTION LIMITS

The following volatile samples have analyte concentrations below the quantitation limit (CRQL). All results below the CRQL are qualified "J".

VBLKE2

Methylene Chloride

The following semivolatile samples have analyte concentrations below the quantitation limit (CRQL). All results below the CRQL are qualified "J".

ECMK8

Acenaphthene, Phenanthrene, Anthracene, Carbazole, Dibenz(a,h)anthracene

ECMK9

Phenanthrene, Anthracene, Benzo(a)anthracene, Chrysene, Benzo(k)fluoranthene,  
 Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Dibenz(a,h)anthracene, Benzo(g,h,i)perylene

Case Number : 26593  
 Site Name: Himco Dump (IN)

SDG Number: ECML0  
 Laboratory: AEN (IEA)

elevated to the CRQL. Hits are qualified "U" and non-detects are not flagged.

bis(2-Ethylhexyl)phthalate  
 ECML0, ECML1, ECML2, ECML3, ECML4, ECML6, ECML7, ECML8, ECML9, ECMM6

## 5. SYSTEM MONITORING COMPOUND AND SURROGATE RECOVERY

The following volatile samples have system monitoring compound recoveries above the upper limit of the criteria window. Hits are qualified "J" and non-detects are qualified as in section 8.

ECMN7RE

The following volatile samples have system monitoring compound recoveries above the upper limit of the criteria window. Hits are qualified "J" and non-detects are qualified below.

ECMN7

The following volatile samples have one or more system monitoring compound recovery values below the lower limit of the criteria window. Hits are biased low and qualified "J" and non-detects are qualified "UJ". However, if the non-detect was flagged as "R" under other qualification, then the "R" flag will be the final flag.

ECMN7

The following semivolatile samples have one surrogate compound recovery outside the QC window. Hits and non-detects are not qualified since the protocol allows at least one surrogate to be out of control before a reanalysis qualification is required.

ECMN7

## 6. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

The relative percent difference (RPD) between the following semivolatile matrix spike and matrix spike duplicate recoveries is outside criteria. Hits are qualified "J" and non-detects are qualified "UJ" for the unspiked sample.

ECML4MS, ECML4MSD  
 Acenaphthene

## 7. FIELD BLANK AND FIELD DUPLICATE

None of the samples in this data set are field blanks or field duplicates.

Case Number : 26593  
Site Name: Himco Dump (IN)

SDG Number: ECML0  
Laboratory: AEN (IEA)

### 1. HOLDING TIME

No problems were found for this qualification.

### 2. GC/MS TUNING AND GC INSTRUMENT PERFORMANCE

No problems were found for this qualification.

### 3. CALIBRATION

The following volatile samples are associated with a continuing calibration whose corresponding initial calibration has percent relative standard deviation (%RSD) outside primary criteria. Hits are qualified "J" and non-detects are flagged "UJ".

Bromomethane, 2-Butanone  
VBLKE2, VHBLKE1

#### Chloroethane

ECMK8, ECMK9, ECML0, ECML1, ECML2, ECML3, ECML4, ECML4MS, ECML4MSD  
ECML5, ECML6, ECML7, ECML8, ECML9, ECMM6, ECMM7, ECMN0, ECMN1  
ECMN2, ECMN3, ECMN4, ECMN7, ECMN7RE, VBLKE1

The following volatile samples are associated with a continuing calibration percent difference (%D) outside primary criteria. Hits are qualified "J" and non-detects are qualified "UJ". However, if the non-detect was flagged "R" under other qualification, then the "R" flag will be the final flag.

#### Trichloroethene, Tetrachloroethene

ECMK8, ECMK9, ECML0, ECML1, ECML2, ECML3, ECML4, ECML4MS, ECML4MSD,  
ECML5, ECML6, ECML7, ECML8, ECML9, ECMM6, ECMM7, ECMN0, ECMN1  
ECMN2, ECMN3, ECMN4, ECMN7, ECMN7RE, VBLKE1

#### 1,1,2,2-Tetrachloroethane

VBLKE2, VHBLKE1

The following semivolatile samples are associated with a continuing calibration percent difference (%D) outside primary criteria. Hits are qualified "J" and non-detects are qualified "UJ".

#### 4-Chloroaniline, Di-n-butylphthalate

ECMK8, ECMK9, ECML8, ECML9, ECMM6, ECMM7

### 4. METHOD BLANKS

The following semivolatile samples have analyte concentrations reported below the CRQL and less than or equal to ten times (10X) the associated method blank concentration. Reported sample concentrations have been

Prepared By: Steffanie Tobin (Lockheed/ESAT)  
Date: November 16, 1998

Case Number : 26593

Site Name: Himco Dump (IN)

SDG Number: ECML0

Laboratory: AEN (IEA)

**Below is a summary of the out-of-control audits and the possible effects on the data for this case:**

Twenty soil samples (ECML0-9, ECMM6-7, ECMK8-9, ECMN0-4, ECMN7) were collected on 10/19-20/98. The lab received the samples on 10/20-21/98 in good condition. All samples were analyzed for the list of VOA and SVOA analytes. All samples were analyzed according to CLP SOW OLMO3.2 3/90.

Prepared By: Steffanie Tobin (Lockheed/ESAT)

Date: November 16, 1998

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION V

DATE: \_\_\_\_\_

SUBJECT: Review of Data  
Received for Review on November 9, 1998

FROM: Stephen L. Ostrodka, Chief (SRT-4J)  
Superfund Technical Support Section

*per Steve Ostrodka  
Michael L. Bogert  
12/2/98*

TO: Data User: USACE

We have reviewed the data for the following case:

Site name: Himco Dump (IN)

Case number: 26593 SDG Number: ECML0

Number and Type of Samples: 20 soil samples

Sample Numbers: ECML0-9, ECMM6-7, ECMK8-9, ECMN0-4, ECMN7

Laboratory: AEN (IEA) Hrs. for Review: \_\_\_\_\_

Following are our findings:

*The data are reliable and acceptable with the qualifications described in the attached narrative. Michael L. Bogert*

CC: Cecilia Moore  
Region 5 TPO  
Mail Code: SM-5J

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION V

ESD Central Regional Laboratory  
Data Tracking Form for Contract Samples

Data Set No: \_\_\_\_\_ CERCLIS No: IN/0540  
Case No: 26593 Site Name Location: Hinco Dump  
Contractor or EPA Lab: IEA Data User: USACE  
No. of Samples: 4 Date Sampled or Data Received: 11-18-98

Have Chain-of-Custody records been received? Yes  No   
Have traffic reports or packing lists been received? Yes  No   
If no, are traffic report or packing list numbers written on the chain-of-custody record? Yes  No   
If no, which traffic report or packing list numbers are missing?  
\_\_\_\_\_  
\_\_\_\_\_

Are basic data forms in? Yes  No   
No of samples claimed: 4 No. of samples received: 4  
Received by: Lynette Burnett Date: 11-18-98  
Received by LSSS: Lynette Burnett Date: 11-18-98  
Review started: 11/23/98 Reviewer Signature: [Signature]  
Total time spent on review: 6.0 Date review completed: 11/24/98  
Copied by: Lynette Burnett Date: 12-15-98  
Mailed to user by: Lynette Burnett Date: 12-15-98

**DATA USER:**

Please fill in the blanks below and return this form to:  
Sylvia Griffen, Data mgmt. Coordinator, Region V, 5SCL

Data received by: \_\_\_\_\_ Date: \_\_\_\_\_

Data review received by: \_\_\_\_\_ Date: \_\_\_\_\_

|                         |     |                               |     |      |
|-------------------------|-----|-------------------------------|-----|------|
| Inorganic Data Complete | [ ] | Suitable for Intended Purpose | [ ] | ✓ if |
| Organic Data Complete   | [ ] | Suitable for Intended Purpose | [ ] | ✓ if |
| Dioxin Data Complete    | [ ] | Suitable for Intended Purpose | [ ] | ✓ if |
| SAS Data Complete       | [ ] | Suitable for Intended Purpose | [ ] | ✓ if |

**PROBLEMS:** Please indicate reasons why data are not suitable for your uses.  
\_\_\_\_\_  
\_\_\_\_\_

Received by Data Mgmt. Coordinator for Files. Data: \_\_\_\_\_

| Sample Number:             | ECM05    | ECM05MS  | ECM05MSD |      |        |      |        |      |        |      |
|----------------------------|----------|----------|----------|------|--------|------|--------|------|--------|------|
| Sampling Location:         | WT119A   | WT119A   | WT119A   |      |        |      |        |      |        |      |
| Matrix:                    | Water    | Water    | Water    |      |        |      |        |      |        |      |
| Units:                     | ug/L     | ug/L     | ug/L     |      |        |      |        |      |        |      |
| Date Sampled:              | 10/22/98 | 10/22/98 | 10/22/98 |      |        |      |        |      |        |      |
| %Moisture:                 |          |          |          |      |        |      |        |      |        |      |
| PH:                        |          |          |          |      |        |      |        |      |        |      |
| Dilution Factor:           | 1.0      | 1.0      | 1.0      |      |        |      |        |      |        |      |
| Semivolatile Compound      | Result   | Flag     | Result   | Flag | Result | Flag | Result | Flag | Result | Flag |
| Acenaphthene               | 10       | U        | 34       |      | 36     |      |        |      |        |      |
| 2,4-Dinitrophenol          | 25       | U        | 25       | U    | 25     | U    |        |      |        |      |
| 4-Nitrophenol              | 25       | U        | 42       |      | 64     |      |        |      |        |      |
| Dibenzofuran               | 10       | U        | 10       | U    | 10     | U    |        |      |        |      |
| 2,4-Dinitrotoluene         | 10       | U        | 38       |      | 38     |      |        |      |        |      |
| Diethylphthalate           | 10       | U        | 10       | U    | 10     | U    |        |      |        |      |
| 4-Chlorophenyl-phenylether | 10       | U        | 10       | U    | 10     | U    |        |      |        |      |
| Fluorene                   | 10       | U        | 10       | U    | 10     | U    |        |      |        |      |
| 4-Nitroaniline             | 25       | U        | 25       | U    | 25     | U    |        |      |        |      |
| 4,6-Dinitro-2-methylphenol | 25       | U        | 25       | U    | 25     | U    |        |      |        |      |
| N-Nitrosodiphenylamine     | 10       | U        | 10       | U    | 10     | U    |        |      |        |      |
| 4-Bromophenyl-phenylether  | 10       | U        | 10       | U    | 10     | U    |        |      |        |      |
| Hexachlorobenzene          | 10       | U        | 10       | U    | 10     | U    |        |      |        |      |
| Pentachlorophenol          | 25       | U        | 59       |      | 69     |      |        |      |        |      |
| Phenanthrene               | 10       | U        | 10       | U    | 10     | U    |        |      |        |      |
| Anthracene                 | 10       | U        | 10       | U    | 10     | U    |        |      |        |      |
| Carbazole                  | 10       | U        | 10       | U    | 10     | U    |        |      |        |      |
| Di-n-butylphthalate        | 10       | U        | 10       | U    | 10     | U    |        |      |        |      |
| Fluoranthene               | 10       | U        | 10       | U    | 10     | U    |        |      |        |      |
| Pyrene                     | 10       | U        | 40       |      | 39     |      |        |      |        |      |
| Butylbenzylphthalate       | 10       | U        | 10       | U    | 10     | U    |        |      |        |      |
| 3,3'-Dichlorobenzidine     | 10       | U        | 10       | U    | 10     | U    |        |      |        |      |
| Benzo(a)anthracene         | 10       | U        | 10       | U    | 10     | U    |        |      |        |      |
| Chrysene                   | 10       | U        | 10       | U    | 10     | U    |        |      |        |      |
| bis(2-Ethylhexyl)phthalate | 10       | U        | 10       | U    | 10     | U    |        |      |        |      |
| Di-n-octylphthalate        | 10       | U        | 10       | U    | 10     | U    |        |      |        |      |
| Benzo(b)fluoranthene       | 10       | U        | 10       | U    | 10     | U    |        |      |        |      |
| Benzo(k)fluoranthene       | 10       | U        | 10       | U    | 10     | U    |        |      |        |      |
| Benzo(a)pyrene             | 10       | U        | 10       | U    | 10     | U    |        |      |        |      |
| Indeno(1.2.3-cd)pyrene     | 10       | U        | 10       | U    | 10     | U    |        |      |        |      |
| Dibenz(a,h)anthracene      | 10       | U        | 10       | U    | 10     | U    |        |      |        |      |
| Benzo(g,h,i)perylene       | 10       | U        | 10       | U    | 10     | U    |        |      |        |      |

Case #: 26593  
 Site:  
 Lab.:  
 Reviewer:  
 Date:

SDG: ECM05  
 HIMCO DUMP, ELKHART  
 IEANJ

| Sample Number:               | ECM05    | ECM05MS  | ECM05MSD |      |        |      |        |      |        |      |
|------------------------------|----------|----------|----------|------|--------|------|--------|------|--------|------|
| Sampling Location:           | WT119A   | WT119A   | WT119A   |      |        |      |        |      |        |      |
| Matrix:                      | Water    | Water    | Water    |      |        |      |        |      |        |      |
| Units:                       | ug/L     | ug/L     | ug/L     |      |        |      |        |      |        |      |
| Date Sampled:                | 10/22/98 | 10/22/98 | 10/22/98 |      |        |      |        |      |        |      |
| %Moisture:                   |          |          |          |      |        |      |        |      |        |      |
| PH:                          |          |          |          |      |        |      |        |      |        |      |
| Dilution Factor:             | 1.0      | 1.0      | 1.0      |      |        |      |        |      |        |      |
| Semivolatile Compound        | Result   | Flag     | Result   | Flag | Result | Flag | Result | Flag | Result | Flag |
| Phenol                       | 10       | U        | 50       |      | 61     |      |        |      |        |      |
| bis(2-Chloroethyl)ether      | 10       | U        | 10       | U    | 10     | U    |        |      |        |      |
| 2-Chlorophenol               | 10       | U        | 55       |      | 59     |      |        |      |        |      |
| 1,3-Dichlorobenzene          | 10       | U        | 10       | U    | 10     | U    |        |      |        |      |
| 1,4-Dichlorobenzene          | 10       | U        | 30       |      | 29     |      |        |      |        |      |
| 1,2-Dichlorobenzene          | 10       | U        | 10       | U    | 10     | U    |        |      |        |      |
| 2-Methylphenol               | 10       | U        | 10       | U    | 10     | U    |        |      |        |      |
| 2,2'-oxybis(1-chloropropane) | 10       | U        | 10       | U    | 10     | U    |        |      |        |      |
| 4-Methylphenol               | 10       | U        | 10       | U    | 10     | U    |        |      |        |      |
| N-Nitroso-di-n-propylamine   | 10       | U        | 34       |      | 32     |      |        |      |        |      |
| Hexachloroethane             | 10       | U        | 10       | U    | 10     | U    |        |      |        |      |
| Nitrobenzene                 | 10       | U        | 10       | U    | 10     | U    |        |      |        |      |
| Isophorone                   | 10       | U        | 10       | U    | 10     | U    |        |      |        |      |
| 2-Nitrophenol                | 10       | U        | 10       | U    | 10     | U    |        |      |        |      |
| 2,4-Dimethylphenol           | 10       | U        | 10       | U    | 10     | U    |        |      |        |      |
| bis(2-Chloroethoxy)methane   | 10       | U        | 10       | U    | 10     | U    |        |      |        |      |
| 2,4-Dichlorophenol           | 10       | U        | 10       | U    | 10     | U    |        |      |        |      |
| 1,2,4-Trichlorobenzene       | 10       | U        | 32       |      | 34     |      |        |      |        |      |
| Naphthalene                  | 10       | U        | 10       | U    | 10     | U    |        |      |        |      |
| 4-Chloroaniline              | 10       | U        | 10       | U    | 10     | U    |        |      |        |      |
| Hexachlorobutadiene          | 10       | U        | 10       | U    | 10     | U    |        |      |        |      |
| 4-Chloro-3-methylphenol      | 10       | U        | 35       |      | 68     |      |        |      |        |      |
| 2-Methylnaphthalene          | 10       | U        | 10       | U    | 10     | U    |        |      |        |      |
| Hexachlorocyclopentadiene    | 10       | U        | 10       | U    | 10     | U    |        |      |        |      |
| 2,4,6-Trichlorophenol        | 10       | U        | 10       | U    | 10     | U    |        |      |        |      |
| 2,4,5-Trichlorophenol        | 25       | U        | 25       | U    | 25     | U    |        |      |        |      |
| 2-Chloronaphthalene          | 10       | U        | 10       | U    | 10     | U    |        |      |        |      |
| 2-Nitroaniline               | 25       | U        | 25       | U    | 25     | U    |        |      |        |      |
| Dimethylphthalate            | 10       | U        | 10       | U    | 10     | U    |        |      |        |      |
| Acenaphthylene               | 10       | U        | 10       | U    | 10     | U    |        |      |        |      |
| 2,6-Dinitrotoluene           | 10       | U        | 10       | U    | 10     | U    |        |      |        |      |
| 3-Nitroaniline               | 25       | U        | 25       | U    | 25     | U    |        |      |        |      |

Analytical Results (Qualified Data)

Case #: 26593  
 Site:  
 Lab.:  
 Reviewer:  
 Date:

SDG: ECM05  
 HIMCO DUMP, ELKHART  
 IEANJ

|                           |               |             |               |             |               |             |               |             |               |             |
|---------------------------|---------------|-------------|---------------|-------------|---------------|-------------|---------------|-------------|---------------|-------------|
| Sample Number:            | ECHR1         |             |               |             |               |             |               |             |               |             |
| Sampling Location:        | WT119A        |             |               |             |               |             |               |             |               |             |
| Matrix:                   | Water         |             |               |             |               |             |               |             |               |             |
| Units:                    | ug/L          |             |               |             |               |             |               |             |               |             |
| Date Sampled:             | 10/22/98      |             |               |             |               |             |               |             |               |             |
| %Moisture:                |               |             |               |             |               |             |               |             |               |             |
| PH:                       |               |             |               |             |               |             |               |             |               |             |
| Dilution Factor:          | 1.0           |             |               |             |               |             |               |             |               |             |
| <b>Volatile Compound</b>  | <b>Result</b> | <b>Flag</b> | Result | Flag | Result | Flag | Result | Flag | Result | Flag |
| Chloromethane             | 10            | U           |               |             |               |             |               |             |               |             |
| Bromomethane              | 10            | U           |               |             |               |             |               |             |               |             |
| Vinyl Chloride            | 10            | U           |               |             |               |             |               |             |               |             |
| Chloroethane              | 10            | U           |               |             |               |             |               |             |               |             |
| Methylene Chloride        | 10            | U           |               |             |               |             |               |             |               |             |
| Acetone                   | 10            | U           |               |             |               |             |               |             |               |             |
| Carbon Disulfide          | 10            | U           |               |             |               |             |               |             |               |             |
| 1,1-Dichloroethene        | 10            | U           |               |             |               |             |               |             |               |             |
| 1,1-Dichloroethane        | 10            | U           |               |             |               |             |               |             |               |             |
| Total 1,2-Dichloroethene  | 10            | U           |               |             |               |             |               |             |               |             |
| Chloroform                | 10            | U           |               |             |               |             |               |             |               |             |
| 1,2-Dichloroethane        | 10            | U           |               |             |               |             |               |             |               |             |
| 2-Butanone                | 10            | U           |               |             |               |             |               |             |               |             |
| 1,1,1-Trichloroethane     | 10            | U           |               |             |               |             |               |             |               |             |
| Carbon Tetrachloride      | 10            | U           |               |             |               |             |               |             |               |             |
| Bromodichloromethane      | 10            | U           |               |             |               |             |               |             |               |             |
| 1,2-Dichloropropane       | 10            | U           |               |             |               |             |               |             |               |             |
| Cis-1,3-Dichloropropene   | 10            | U           |               |             |               |             |               |             |               |             |
| Trichloroethene           | 10            | U           |               |             |               |             |               |             |               |             |
| Dibromochloromethane      | 10            | U           |               |             |               |             |               |             |               |             |
| 1,1,2-Trichloroethane     | 10            | U           |               |             |               |             |               |             |               |             |
| Benzene                   | 10            | U           |               |             |               |             |               |             |               |             |
| Trans-1,3-Dichloropropene | 10            | U           |               |             |               |             |               |             |               |             |
| Bromoform                 | 10            | U           |               |             |               |             |               |             |               |             |
| 4-Methyl-2-pentanone      | 10            | U           |               |             |               |             |               |             |               |             |
| 2-Hexanone                | 10            | U           |               |             |               |             |               |             |               |             |
| Tetrachloroethene         | 10            | U           |               |             |               |             |               |             |               |             |
| 1,1,2,2-Tetrachloroethane | 10            | U           |               |             |               |             |               |             |               |             |
| Toluene                   | 10            | U           |               |             |               |             |               |             |               |             |
| Chlorobenzene             | 10            | U           |               |             |               |             |               |             |               |             |
| Ethylbenzene              | 10            | U           |               |             |               |             |               |             |               |             |
| Styrene                   | 10            | U           |               |             |               |             |               |             |               |             |
| Xylene (total)            | 10            | U           |               |             |               |             |               |             |               |             |

Case #: 26593  
 Site:  
 Lab.:  
 Reviewer:  
 Date:

SDG: ECMQ5  
 HIMCO DUMP, ELKHART  
 IEANJ

| Sample Number:            | ECMQ5    | ECMQ5MS  | ECMQ5MSD | ECMQ9    | ECMQ9    | ECMQ9    | ECMQ9    | ECMR0      |        |      |
|---------------------------|----------|----------|----------|----------|----------|----------|----------|------------|--------|------|
| Sampling Location:        | WT119A   | TRIP BLANK |        |      |
| Matrix:                   | Water      |        |      |
| Units:                    | ug/L       |        |      |
| Date Sampled:             | 10/22/98 | 10/22/98 | 10/22/98 | 10/22/98 | 10/22/98 | 10/22/98 | 10/22/98 | 10/22/98   |        |      |
| %Moisture:                |          |          |          |          |          |          |          |            |        |      |
| PH:                       |          |          |          |          |          |          |          |            |        |      |
| Dilution Factor:          | 1.0      | 1.0      | 1.0      | 1.0      | 1.0      | 1.0      | 1.0      | 1.0        |        |      |
| Volatile Compound         | Result   | Flag     | Result   | Flag     | Result   | Flag     | Result   | Flag       | Result | Flag |
| Chloromethane             | 10       | U        | 10       | U        | 10       | U        | 10       | U          | 10     | R    |
| Bromomethane              | 10       | UJ       | 10       | UJ       | 10       | UJ       | 10       | UJ         | 10     | R    |
| Vinyl Chloride            | 10       | U        | 10       | U        | 10       | U        | 10       | U          | 10     | R    |
| Chloroethane              | 10       | U        | 10       | U        | 10       | U        | 10       | U          | 10     | R    |
| Methylene Chloride        | 10       | U        | 10       | U        | 10       | U        | 10       | U          | 10     | R    |
| Acetone                   | 10       | U        | 10       | U        | 10       | U        | 10       | U          | 10     | R    |
| Carbon Disulfide          | 10       | U        | 10       | U        | 10       | U        | 10       | U          | 10     | R    |
| 1,1-Dichloroethene        | 10       | U        | 44       |          | 44       |          | 10       | U          | 10     | R    |
| 1,1-Dichloroethane        | 10       | U        | 10       | U        | 10       | U        | 10       | U          | 10     | R    |
| Total 1,2-Dichloroethene  | 10       | U        | 10       | U        | 10       | U        | 10       | U          | 10     | R    |
| Chloroform                | 10       | U        | 10       | U        | 10       | U        | 10       | U          | 10     | R    |
| 1,2-Dichloroethane        | 10       | U        | 10       | U        | 10       | U        | 10       | U          | 10     | R    |
| 2-Butanone                | 10       | UJ       | 10       | UJ       | 10       | UJ       | 10       | UJ         | 10     | R    |
| 1,1,1-Trichloroethane     | 10       | U        | 10       | U        | 10       | U        | 10       | U          | 10     | R    |
| Carbon Tetrachloride      | 10       | U        | 10       | U        | 10       | U        | 10       | U          | 10     | R    |
| Bromodichloromethane      | 10       | U        | 10       | U        | 10       | U        | 10       | U          | 10     | R    |
| 1,2-Dichloropropane       | 10       | U        | 10       | U        | 10       | U        | 10       | U          | 10     | R    |
| Cis-1,3-Dichloropropene   | 10       | U        | 10       | U        | 10       | U        | 10       | U          | 10     | R    |
| Trichloroethene           | 10       | U        | 49       |          | 53       |          | 10       | U          | 10     | R    |
| Dibromochloromethane      | 10       | U        | 10       | U        | 10       | U        | 10       | U          | 10     | R    |
| 1,1,2-Trichloroethane     | 10       | U        | 10       | U        | 10       | U        | 10       | U          | 10     | R    |
| Benzene                   | 10       | U        | 47       |          | 48       |          | 10       | U          | 10     | R    |
| Trans-1,3-Dichloropropene | 10       | U        | 10       | U        | 10       | U        | 10       | U          | 10     | R    |
| Bromoform                 | 10       | U        | 10       | U        | 10       | U        | 10       | U          | 10     | R    |
| 4-Methyl-2-pentanone      | 10       | U        | 10       | U        | 10       | U        | 10       | U          | 10     | R    |
| 2-Hexanone                | 10       | U        | 10       | U        | 10       | U        | 10       | U          | 10     | R    |
| Tetrachloroethene         | 10       | U        | 10       | U        | 10       | U        | 10       | U          | 10     | R    |
| 1,1,2,2-Tetrachloroethane | 10       | U        | 10       | U        | 10       | U        | 10       | U          | 10     | R    |
| Toluene                   | 10       | U        | 46       |          | 47       |          | 10       | U          | 10     | R    |
| Chlorobenzene             | 10       | U        | 52       |          | 50       |          | 10       | U          | 10     | R    |
| Ethylbenzene              | 10       | U        | 10       | U        | 10       | U        | 10       | U          | 10     | R    |
| Styrene                   | 10       | U        | 10       | U        | 10       | U        | 10       | U          | 10     | R    |
| Xylene (total)            | 10       | U        | 10       | U        | 10       | U        | 10       | U          | 10     | R    |

Case Number : 26593  
Site Name: Himco Dump (IN)

SDG Number: ECMQ5  
Laboratory: IEA-NJ

TICS

| Semivolatile Analysis Data - SBLKH2                     |               |                    |                         |         |
|---|---------------|--------------------|-------------------------|---------|
| Tentatively Identified Compounds                        |               |                    |                         |         |
| CASE NO: 26593  |               | LABORATORY: IEA-NJ |                         |         |
| SDG NO: ECMQ5   |               |                    |                         |         |
| CAS NUMBER  | COMPOUND NAME | RT                 | ESTIMATED CONCENTRATION | Q       |
|   | UNKNOWN ACID  | 10.22              | 3.000                   |         |
|   | UNKNOWN ACID  | 10.42              | 4.000                   |         |
|   | UNKNOWN ACID  | 12.54              | 2.000                   |         |
| FILE NAME: ECMQ5.SDG DATE: 11/19/98 TIME: 10:31 CADRE98 |               |                    |                         | PAGE: 1 |

| Semivolatile Analysis Data - ECMQ5                      |                                     |                    |                         |         |
|---|-------------------------------------|--------------------|-------------------------|---------|
| Tentatively Identified Compounds                        |                                     |                    |                         |         |
| CASE NO: 26593  |                                     | LABORATORY: IEA-NJ |                         |         |
| SDG NO: ECMQ5   |                                     |                    |                         |         |
| CAS NUMBER  | COMPOUND NAME                       | RT                 | ESTIMATED CONCENTRATION | Q       |
|   | UNKNOWN                             | 4.63               | 3.000                   |         |
|   | BICYCLO[2.2.1]HEPT-5-ENE-2,3-DICARB | 16.44              | 3.000                   |         |
|   | UNKNOWN                             | 17.57              | 2.000                   |         |
|   | UNKNOWN                             | 21.25              | 2.000                   |         |
| FILE NAME: ECMQ5.SDG DATE: 11/19/98 TIME: 10:31 CADRE98 |                                     |                    |                         | PAGE: 2 |

Case Number : 26593  
Site Name: Himco Dump (IN)

SDG Number: ECMQ5  
Laboratory: IEA-NJ

## CADRE Data Qualifier Sheet

| <u>Qualifiers</u> | <u>Data Qualifier Definitions</u>   |
|-------------------|---|
| U                 | The analyte was analyzed for, but was not detected above the reported sample quantitation limit.  |
| J                 | The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.   |
| UJ                | The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the action limit of quantitation necessary to accurately and precisely measure the analyte in the sample. |
| N                 | The analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification.   |
| NJ                | The analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification and the associated numerical value represents its approximate concentration.   |
| R                 | The data are unusable. (The compound may or may not be present)   |
| H                 | Sample result is estimated and biased high.   |
| L                 | Sample result is estimated and biased low.  |

Case Number : 26593  
Site Name: Himco Dump (IN)

SDG Number: ECMQ5  
Laboratory: IEA-NJ

TICS

| Semivolatile Analysis Data - SBLKH2<br>Tentatively Identified Compounds |               |                    |                         |         |
|---|---------------|--------------------|-------------------------|---------|
| CASE NO: 26593<br>SDG NO: ECMQ5   |               | LABORATORY: IEA-NJ |                         |         |
| CAS NUMBER  | COMPOUND NAME | RT                 | ESTIMATED CONCENTRATION | Q       |
|   | UNKNOWN ACID  | 10.22              | 3.000                   |         |
|   | UNKNOWN ACID  | 10.42              | 4.000                   |         |
|   | UNKNOWN ACID  | 12.54              | 2.000                   |         |
| FILE NAME: ECMQ5.SDG DATE: 11/19/98 TIME: 10:31 CADRE98                 |               |                    |                         | PAGE: 1 |

| Semivolatile Analysis Data - ECMQ5<br>Tentatively Identified Compounds |                                     |                    |                         |         |
|--|-------------------------------------|--------------------|-------------------------|---------|
| CASE NO: 26593<br>SDG NO: ECMQ5  |                                     | LABORATORY: IEA-NJ |                         |         |
| CAS NUMBER   | COMPOUND NAME                       | RT                 | ESTIMATED CONCENTRATION | Q       |
|  | UNKNOWN                             | 4.63               | 3.000                   |         |
|  | BICYCLO[2.2.1]HEPT-5-ENE-2,3-DICARB | 16.44              | 3.000                   |         |
|  | UNKNOWN                             | 17.57              | 2.000                   |         |
|  | UNKNOWN                             | 21.25              | 2.000                   |         |
| FILE NAME: ECMQ5.SDG DATE: 11/19/98 TIME: 10:31 CADRE98                |                                     |                    |                         | PAGE: 2 |

Case Number : 26593  
Site Name: Himco Dump (IN)

SDG Number: ECMQ5  
Laboratory: IEA-NJ

CADRE Data Qualifier Sheet

Qualifiers

Data Qualifier Definitions

- |    |   |
|----|---|
| U  | The analyte was analyzed for, but was not detected above the reported sample quantitation limit.  |
| J  | The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.   |
| UJ | The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the action limit of quantitation necessary to accurately and precisely measure the analyte in the sample. |
| N  | The analysis indicates the present of an analyte for which there is presumptive evidence to make a tentative identification.  |
| NJ | The analysis indicates the present of an analyte for which there is presumptive evidence to make a tentative identification and the associated numerical value represents its approximate concentration.  |
| R  | The data are unusable. (The compound may or may not be present)   |
| H  | Sample result is estimated and biased high.   |
| L  | Sample result is estimated and biased low.  |

Case Number : 26593  
Site Name: Himco Dump (IN)

SDG Number: ECMQ5  
Laboratory: IEA-NJ

## 12. ADDITIONAL INFORMATION

According to the chain-of-custody, the lab received the sample aliquots for semi-volatile analysis for all samples except the trip blank, but did not perform the semi-volatile analysis for samples ECMQ9 and ECMR1. The lab did not include the sample tags for the SVOA fraction for samples ECMQ9 and ECMR1 in the data case. There is no record of communication between the lab and any government agency as to what happened to the analysis of the SVOA fraction for the listed samples.

*See other valid  
package*

Reviewed By: Thomas Sedlacek, Lockheed Martin ESAT  
Date: November 30, 1998

Case Number : 26593  
Site Name: Himco Dump (IN)

SDG Number: ECMQ5  
Laboratory: IEA-NJ

#### 6. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

The relative percent difference (RPD) between the following semivolatile matrix spike and matrix spike duplicate recoveries is outside criteria. In sample ECMQ5 hits are flagged "J" and non-detects are flagged "UJ".

ECMQ5MS  
4-Chloro-3-methylphenol

ECMQ5MSD  
4-Chloro-3-methylphenol

The following semivolatile matrix spike/matrix spike duplicate samples have percent recovery outside criteria. Although the recovery exceeded the upper limit, the actual recovery was less than 100% of what was spike therefore no action need to taken for this "out of control condition".

ECMQ5MSD  
4-Nitrophenol

#### 7. FIELD BLANK AND FIELD DUPLICATE

According to the chain-of-custody sample ECMQ9 and ECMQ5 are a field duplicate sample pair in this data set. Sample ECMQ5 was analyzed in this data set, sample ECMQ9 was not analyzed in this data set. The reviewer was unable to determine which data set includes the missing sample.

#### 8. INTERNAL STANDARDS

No problems found for this qualification.

#### 9. COMPOUND IDENTIFICATION

After reviewing the mass spectra and chromatograms it appears that all VOA, and SVOA compounds were properly identified.

#### 10. COMPOUND QUANTITATION AND REPORTED DETECTION LIMITS

No problems found for this qualification.

#### 11. SYSTEM PERFORMANCE

GC/MS baselines indicated acceptable performance.

Reviewed By: Thomas Sedlacek, Lockheed Martin ESAT  
Date: November 30, 1998

Case Number : 26593  
Site Name: Himco Dump (IN)

SDG Number: ECMQ5  
Laboratory: IEA-NJ

### 1. HOLDING TIME

The trip blank was "sampled" on November 2, 1998 and analyzed outside of holding time windows. The data for ECMR0 is qualified "R" unusable.

### 2. GC/MS TUNING AND GC INSTRUMENT PERFORMANCE

No problems found for this qualification.

### 3. CALIBRATION

The following volatile samples are associated with a continuing calibration whose corresponding initial calibration has percent relative standard deviation (%RSD) outside primary criteria. Hits are qualified "J" and non-detects are flagged "UJ".

Bromomethane, 2-Butanone

ECMQ5, ECMQ5MS, ECMQ5MSD, ECMQ9, ECMR1, VBLKE5, VBLKE7, VHBLK

The following volatile samples are associated with a continuing calibration percent difference (%D) outside primary criteria. Hits are qualified "J" and non-detects are qualified "UJ".

2-Butanone

ECMQ5, ECMQ5MS, ECMQ5MSD, ECMQ9, ECMR1, VBLKE5

1,1,2,2-Tetrachloroethane

VBLKE7, VHBLKE2

The following semivolatile samples are associated with a continuing calibration percent difference (%D) outside primary criteria. Hits are qualified "J" and non-detects are qualified "UJ".

4-Chloroaniline, Di-n-butylphthalate

ECMQ5, ECMQ5MS, SBLKH2

### 4. BLANKS

No problems found for this qualification.

### 5. SYSTEM MONITORING COMPOUND AND SURROGATE RECOVERY

The recovery of surrogate S3 (Terphenyl<sub>d14</sub>) in ECMQ5MS was low and S6 (2,4,6-Tribromophenol) in ECMQ5MSD was high. Because only one surrogate in any fraction was out of control in either sample, no action need be taken.

Reviewed By: Thomas Sedlacek, Lockheed Martin ESAT

Date: November 30, 1998

Case Number : 26593  
Site Name: Himco Dump (IN)

SDG Number: ECMQ5  
Laboratory: IEA-NJ

Below is a summary of the out-of-control audits and the possible effects on the data for this case:

*COC says OCT 98*  
Four water samples, numbered ECMQ5, ECMQ9, ECMR0, and ECMR1, were collected on November 2 and 22, 1998. The lab received the samples on November 23, 1998 in good condition. All samples were analyzed for the full list of volatile organic analytes, only sample ECMQ5 was analyzed for the semi-volatile list of organic analytes.

Sample ECMR0 is a trip blank. Sample ECMR1 is a rinseate blank.

According to the chain-of-custody, the lab received the sample aliquots for semi-volatile analysis for all samples except the trip blank, but did not perform the semi-volatile analysis for samples ECMQ9 and ECMR1.

*semi voc's are in a diff. valid. package*

Reviewed By: Thomas Sedlacek, Lockheed Martin ESAT  
Date: November 30, 1998

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION V

DATE: November 24, 1998

SUBJECT: Review of Data  
Received for Review on Nov. 18, 1998

FROM: Stephen L. Ostrodka, Chief (SRT-4J)  
Superfund Technical Support Section

*for Steve Ostrodka  
Richard A. Bynick  
12/3/98*

TO: Data User: USACE

We have reviewed the data for the following case:

SITE NAME: Himco Dump (IN)

CASE NUMBER: 26593 SDG NUMBER: ECMQ5

Number and Type of Samples: four (water)

Sample Numbers: ECMQ5, ECMQ9, ECMR0, ECMR1

Laboratory: IEA Hrs. for Review: 6.0 + 0.5

Following are our findings:

*The data are acceptable and reliable with the  
qualifications described in the attached narrative.  
Richard A. Bynick*

CC: Cecilia Moore  
Region 5 TPO  
Mail Code: SM-5J

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION V

ESD Central Regional Laboratory  
Data Tracking Form for Contract Samples

Data Set No: \_\_\_\_\_ CERCLIS No: IN/054J  
Case No: 26593 Site Name Location: Minco Dump  
Contractor or EPA Lab: IEA Data User: USACE  
No. of Samples: 8 Date Sampled or Data Received: 11-16-98

Have Chain-of-Custody records been received? Yes  No   
Have traffic reports or packing lists been received? Yes  No   
If no, are traffic report or packing list numbers written on the chain  
of-custody record? Yes  No   
If no, which traffic report or packing list numbers are missing?  
\_\_\_\_\_  
\_\_\_\_\_

Are basic data forms in? Yes  No   
No of samples claimed: 8 No. of samples received: 8  
Received by: Lynette Burnett Date: 11-16-98  
Received by LSSS: Lynette Burnett Date: 11-16-98  
Review started: 11-17-98 Reviewer Signature: Allison C. Har  
Total time spent on review: 8.5 hrs Date review completed: 11-19-98  
Copied by: Lynette Burnett Date: 11-25-98  
Mailed to user by: Lynette Burnett Date: 11-25-98

**DATA USER:**

Please fill in the blanks below and return this form to:  
Sylvia Griffen, Data mgmt. Coordinator, Region V, 5SCRL

Data received by: \_\_\_\_\_ Date: \_\_\_\_\_

Data review received by: \_\_\_\_\_ Date: \_\_\_\_\_

Inorganic Data Complete [ ] Suitable for Intended Purpose [ ]  if  
Organic Data Complete [ ] Suitable for Intended Purpose [ ]  if  
Dioxin Data Complete [ ] Suitable for Intended Purpose [ ]  if  
SAS Data Complete [ ] Suitable for Intended Purpose [ ]  if

**PROBLEMS:** Please indicate reasons why data are not suitable for yo  
uses.  
\_\_\_\_\_  
\_\_\_\_\_

Received by Data Mgmt. Coordinator for Files. Data: \_\_\_\_\_

Semivolatile Analysis Data - ECMQ6  
Tentatively Identified Compounds

CASE NO: 26593  
SDG NO: ECMP3

LABORATORY: IEA-NJ

| CAS NUMBER       | COMPOUND NAME | RT    | ESTIMATED CONCENTRATION | Q |
|------------------|---------------|-------|-------------------------|---|
| UNKNOWN          |               | 4.34  | 270.000                 | J |
| UNKNOWN          |               | 19.04 | 300.000                 | J |
| UNKNOWN PAH      |               | 20.54 | 260.000                 | J |
| UNKNOWN          |               | 20.91 | 200.000                 | J |
| UNKNOWN          |               | 20.98 | 500.000                 | J |
| UNKNOWN PAH      |               | 21.04 | 2000.000                | J |
| UNKNOWN PAH      |               | 21.10 | 320.000                 | J |
| UNKNOWN AROMATIC |               | 21.21 | 1200.000                | J |
| UNKNOWN          |               | 21.26 | 490.000                 | J |
| UNKNOWN          |               | 21.30 | 1000.000                | J |
| UNKNOWN          |               | 21.43 | 1700.000                | J |
| UNKNOWN AROMATIC |               | 21.55 | 340.000                 | J |
| UNKNOWN          |               | 21.60 | 280.000                 | J |
| UNKNOWN          |               | 21.69 | 200.000                 | J |
| UNKNOWN          |               | 21.75 | 1000.000                | J |
| UNKNOWN          |               | 21.82 | 420.000                 | J |
| UNKNOWN AROMATIC |               | 21.95 | 360.000                 | J |
| UNKNOWN AROMATIC |               | 22.09 | 1600.000                | J |
| UNKNOWN AROMATIC |               | 22.27 | 270.000                 | J |
| UNKNOWN          |               | 22.46 | 420.000                 | J |
| UNKNOWN AROMATIC |               | 29.24 | 270.000                 | J |
| UNKNOWN PAH      |               | 30.10 | 200.000                 | J |
| UNKNOWN          |               | 30.29 | 1200.000                | J |
| UNKNOWN PAH      |               | 30.50 | 200.000                 | J |
| UNKNOWN          |               | 30.83 | 220.000                 | J |
| UNKNOWN AROMATIC |               | 31.26 | 2000.000                | J |
| UNKNOWN          |               | 31.44 | 680.000                 | J |

FILE NAME: ECMP3.SDG DATE: 11/13/98 TIME: 16:25 CADRE98

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Semivolatile Analysis Data - ECMP4DL  
Tentatively Identified Compounds

CASE NO: 26593  
SDG NO: ECMP3

LABORATORY: IEA-NJ

| CAS NUMBER           | COMPOUND NAME | RT    | ESTIMATED CONCENTRATION | Q  |
|----------------------|---------------|-------|-------------------------|----|
| UNKNOWN              |               | 4.01  | 340.000                 | J  |
| UNKNOWN              |               | 4.26  | 320.000                 | J  |
| UNKNOWN              |               | 6.02  | 510.000                 | J  |
| UNKNOWN              |               | 7.44  | 1700.000                | JB |
| UNKNOWN              |               | 9.16  | 390.000                 | J  |
| UNKNOWN PAH          |               | 15.66 | 290.000                 | J  |
| UNKNOWN PAH          |               | 15.71 | 340.000                 | J  |
| UNKNOWN PAH          |               | 15.90 | 590.000                 | J  |
| UNKNOWN PAH          |               | 16.25 | 230.000                 | J  |
| 9,10-ANTHRACENEDIONE |               | 16.31 | 280.000                 | JN |
| UNKNOWN PAH          |               | 16.77 | 170.000                 | J  |
| UNKNOWN PAH          |               | 18.25 | 140.000                 | J  |
| UNKNOWN PAH          |               | 22.98 | 250.000                 | J  |
| UNKNOWN PAH          |               | 23.52 | 1100.000                | J  |
| UNKNOWN PAH          |               | 23.94 | 440.000                 | J  |
| UNKNOWN PAH          |               | 27.42 | 260.000                 | J  |
| UNKNOWN PAH          |               | 29.81 | 210.000                 | J  |

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Semivolatile Analysis Data - ECMP6  
Tentatively Identified Compounds

CASE NO: 26593  
SDG NO: ECMP3

LABORATORY: IEA-NJ

| CAS NUMBER | COMPOUND NAME | RT    | ESTIMATED CONCENTRATION | Q |
|------------|---------------|-------|-------------------------|---|
|            | UNKNOWN       | 4.17  | 100.000                 | J |
|            | UNKNOWN       | 4.38  | 200.000                 | J |
|            | UNKNOWN ACID  | 15.67 | 130.000                 | J |
|            | UNKNOWN       | 18.63 | 81.000                  | J |
|            | UNKNOWN       | 29.93 | 82.000                  | J |
|            | UNKNOWN       | 29.97 | 130.000                 | J |
|            | UNKNOWN       | 31.36 | 210.000                 | J |

FILE NAME: ECMP3.SDG DATE: 11/13/98 TIME: 16:25 CADRE98

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Semivolatile Analysis Data - ECMP7  
Tentatively Identified Compounds

CASE NO: 26593  
SDG NO: ECMP3

LABORATORY: IEA-NJ

| CAS NUMBER | COMPOUND NAME   | RT    | ESTIMATED CONCENTRATION | Q  |
|------------|-----------------|-------|-------------------------|----|
|            | UNKNOWN         | 4.05  | 80.000                  | J  |
|            | UNKNOWN         | 4.33  | 170.000                 | J  |
|            | UNKNOWN         | 4.65  | 15000.000               | JB |
|            | UNKNOWN ACID    | 15.67 | 76.000                  | J  |
|            | UNKNOWN         | 22.20 | 76.000                  | J  |
|            | UNKNOWN ALCOHOL | 24.64 | 110.000                 | J  |
|            | UNKNOWN         | 29.96 | 140.000                 | J  |
|            | UNKNOWN         | 31.35 | 140.000                 | J  |

FILE NAME: ECMP3.SDG DATE: 11/13/98 TIME: 16:25 CADRE98

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Semivolatile Analysis Data - ECMP8  
Tentatively Identified Compounds

CASE NO: 26593  
SDG NO: ECMP3

LABORATORY: IEA-NJ

| CAS NUMBER | COMPOUND NAME | RT    | ESTIMATED CONCENTRATION | Q |
|------------|---------------|-------|-------------------------|---|
|            | UNKNOWN       | 4.34  | 150.000                 | J |
|            | UNKNOWN       | 14.58 | 170.000                 | J |
|            | UNKNOWN ACID  | 15.67 | 96.000                  | J |
|            | UNKNOWN       | 20.54 | 200.000                 | J |
|            | UNKNOWN PAH   | 20.91 | 90.000                  | J |
|            | UNKNOWN       | 22.40 | 230.000                 | J |
|            | UNKNOWN       | 24.63 | 89.000                  | J |
|            | UNKNOWN       | 31.28 | 120.000                 | J |

FILE NAME: ECMP3.SDG DATE: 11/13/98 TIME: 16:25 CADRE98

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Semivolatile Analysis Data - ECMP9  
Tentatively Identified Compounds

CASE NO: 26593  
SDG NO: ECMP3

LABORATORY: IEA-NJ

| CAS NUMBER | COMPOUND NAME   | RT    | ESTIMATED CONCENTRATION | Q |
|------------|-----------------|-------|-------------------------|---|
|            | UNKNOWN ALCOHOL | 5.18  | 72.000                  | J |
|            | UNKNOWN         | 29.96 | 88.000                  | J |

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Semivolatile Analysis Data - ECMP3  
Tentatively Identified Compounds

CASE NO: 26593  
SDG NO: ECMP3

LABORATORY: IEA-NJ

| CAS NUMBER   | COMPOUND NAME | RT    | ESTIMATED CONCENTRATION | Q |
|--------------|---------------|-------|-------------------------|---|
| UNKNOWN      |               | 4.08  | 1500.000                | J |
| UNKNOWN ACID |               | 15.68 | 120.000                 | J |
| UNKNOWN PAH  |               | 15.77 | 78.000                  | J |
| UNKNOWN PAH  |               | 18.30 | 79.000                  | J |
| UNKNOWN PAH  |               | 19.68 | 80.000                  | J |
| UNKNOWN PAH  |               | 23.06 | 86.000                  | J |
| UNKNOWN PAH  |               | 24.02 | 180.000                 | J |
| UNKNOWN      |               | 27.17 | 130.000                 | J |
| UNKNOWN PAH  |               | 27.57 | 230.000                 | J |
| UNKNOWN PAH  |               | 28.57 | 140.000                 | J |
| UNKNOWN PAH  |               | 28.71 | 210.000                 | J |
| UNKNOWN      |               | 30.50 | 80.000                  | J |
| UNKNOWN      |               | 31.09 | 99.000                  | J |

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Semivolatile Analysis Data - ECMP4  
Tentatively Identified Compounds

CASE NO: 26593  
SDG NO: ECMP3

LABORATORY: IEA-NJ

| CAS NUMBER           | COMPOUND NAME | RT    | ESTIMATED CONCENTRATION | Q  |
|----------------------|---------------|-------|-------------------------|----|
| UNKNOWN              |               | 6.04  | 540.000                 | J  |
| UNKNOWN              |               | 7.48  | 2100.000                | JB |
| UNKNOWN              |               | 9.21  | 380.000                 | J  |
| UNKNOWN PAH          |               | 15.71 | 400.000                 | J  |
| UNKNOWN PAH          |               | 15.77 | 400.000                 | J  |
| UNKNOWN PAH          |               | 15.96 | 760.000                 | J  |
| UNKNOWN PAH          |               | 16.30 | 250.000                 | J  |
| 9,10-ANTHRACENEDIONE |               | 16.37 | 330.000                 | JN |
| UNKNOWN PAH          |               | 16.83 | 190.000                 | J  |
| UNKNOWN PAH          |               | 18.31 | 72.000                  | J  |
| UNKNOWN PAH          |               | 23.08 | 230.000                 | J  |
| UNKNOWN PAH          |               | 23.65 | 1000.000                | J  |
| UNKNOWN PAH          |               | 24.07 | 400.000                 | J  |
| UNKNOWN PAH          |               | 27.56 | 180.000                 | J  |

FILE NAME: ECMP3.SDG DATE: 11/13/98 TIME: 16:25 CADRE98

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Semivolatile Analysis Data - ECMP5  
Tentatively Identified Compounds

CASE NO: 26593  
SDG NO: ECMP3

LABORATORY: IEA-NJ

| CAS NUMBER | COMPOUND NAME | RT    | ESTIMATED CONCENTRATION | Q  |
|------------|---------------|-------|-------------------------|----|
| UNKNOWN    |               | 4.09  | 150.000                 | J  |
| UNKNOWN    |               | 4.35  | 110.000                 | J  |
| UNKNOWN    |               | 6.04  | 140.000                 | J  |
| UNKNOWN    |               | 7.48  | 840.000                 | JB |
| UNKNOWN    |               | 9.21  | 460.000                 | J  |
| UNKNOWN    |               | 29.97 | 84.000                  | J  |

FILE NAME: ECMP3.SDG DATE: 11/13/98 TIME: 16:25 CADRE98

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| Volatile Analysis Data - ECMP3<br>Tentatively Identified Compounds |               |                    |                         |         |
|--|---------------|--------------------|-------------------------|---------|
| CASE NO: 26593<br>SDG NO: ECMP3                                    |               | LABORATORY: IEA-NJ |                         |         |
| CAS NUMBER   | COMPOUND NAME | RT                 | ESTIMATED CONCENTRATION | Q       |
|  | COLUMN BLEED  | 17.74              | 12.000                  | J       |
| FILE NAME: ECMP3.SDG DATE: 11/13/98 TIME: 16:25 CADRE98            |               |                    |                         | PAGE: 1 |

| Volatile Analysis Data - ECMP4<br>Tentatively Identified Compounds |               |                    |                         |         |
|--|---------------|--------------------|-------------------------|---------|
| CASE NO: 26593<br>SDG NO: ECMP3                                    |               | LABORATORY: IEA-NJ |                         |         |
| CAS NUMBER   | COMPOUND NAME | RT                 | ESTIMATED CONCENTRATION | Q       |
|  | COLUMN BLEED  | 17.67              | 88.000                  | J       |
| FILE NAME: ECMP3.SDG DATE: 11/13/98 TIME: 16:25 CADRE98            |               |                    |                         | PAGE: 2 |

| Volatile Analysis Data - ECMP5<br>Tentatively Identified Compounds |               |                    |                         |         |
|--|---------------|--------------------|-------------------------|---------|
| CASE NO: 26593<br>SDG NO: ECMP3                                    |               | LABORATORY: IEA-NJ |                         |         |
| CAS NUMBER   | COMPOUND NAME | RT                 | ESTIMATED CONCENTRATION | Q       |
|  | COLUMN BLEED  | 17.68              | 110.000                 | J       |
|  | COLUMN BLEED  | 18.31              | 28.000                  | J       |
| FILE NAME: ECMP3.SDG DATE: 11/13/98 TIME: 16:25 CADRE98            |               |                    |                         | PAGE: 3 |

| Volatile Analysis Data - ECMP6<br>Tentatively Identified Compounds |               |                    |                         |         |
|--|---------------|--------------------|-------------------------|---------|
| CASE NO: 26593<br>SDG NO: ECMP3                                    |               | LABORATORY: IEA-NJ |                         |         |
| CAS NUMBER   | COMPOUND NAME | RT                 | ESTIMATED CONCENTRATION | Q       |
|  | COLUMN BLEED  | 18.34              | 97.000                  | J       |
| FILE NAME: ECMP3.SDG DATE: 11/13/98 TIME: 16:25 CADRE98            |               |                    |                         | PAGE: 4 |

| Semivolatile Analysis Data - SBLKH5<br>Tentatively Identified Compounds |                            |                    |                         |         |
|---|----------------------------|--------------------|-------------------------|---------|
| CASE NO: 26593<br>SDG NO: ECMP3   |                            | LABORATORY: IEA-NJ |                         |         |
| CAS NUMBER  | COMPOUND NAME              | RT                 | ESTIMATED CONCENTRATION | Q       |
|   | UNKNOWN                    | 4.30               | 420.000                 | J       |
|   | UNKNOWN                    | 4.47               | 220.000                 | J       |
|   | ALDOL CONDENSATION PRODUCT | 4.76               | 36000.000               | JA      |
|   | UNKNOWN                    | 5.21               | 130.000                 | J       |
|   | UNKNOWN                    | 5.55               | 1900.000                | J       |
|   | UNKNOWN                    | 6.28               | 360.000                 | J       |
|   | UNKNOWN                    | 6.42               | 170.000                 | J       |
|   | UNKNOWN                    | 7.47               | 81.000                  | J       |
|   | UNKNOWN                    | 8.33               | 76.000                  | J       |
|   | UNKNOWN                    | 18.61              | 67.000                  | J       |
| FILE NAME: ECMP3.SDG DATE: 11/13/98 TIME: 16:25 CADRE98                 |                            |                    |                         | PAGE: 5 |



Case #: 26593                      SDG: ECMP3  
 Site:                                HIMCO DUMP, ELKHART  
 Lab.:                                IEANJ  
 Reviewer:  
 Date:

|                              |               |             |               |             |               |             |               |             |               |
|------------------------------|---------------|-------------|---------------|-------------|---------------|-------------|---------------|-------------|---------------|
| Sample Number:               | ECM06         |             |               |             |               |             |               |             |               |
| Sampling Location:           | SB07-2        |             |               |             |               |             |               |             |               |
| Matrix:                      | Soil          |             |               |             |               |             |               |             |               |
| Units:                       | ug/kg         |             |               |             |               |             |               |             |               |
| Date Sampled:                | 10/21/98      |             |               |             |               |             |               |             |               |
| %Moisture:                   | 3             |             |               |             |               |             |               |             |               |
| PH:                          | 7.9           |             |               |             |               |             |               |             |               |
| Dilution Factor:             | 1.0           |             |               |             |               |             |               |             |               |
| <b>Semivolatile Compound</b> | <b>Result</b> | <b>Flag</b> | <b>Result</b> | <b>Flag</b> | <b>Result</b> | <b>Flag</b> | <b>Result</b> | <b>Flag</b> | <b>Result</b> |
| Phenol                       | 340           | U           |               |             |               |             |               |             |               |
| bis(2-Chloroethyl)ether      | 340           | U           |               |             |               |             |               |             |               |
| 2-Chlorophenol               | 340           | U           |               |             |               |             |               |             |               |
| 1,3-Dichlorobenzene          | 340           | U           |               |             |               |             |               |             |               |
| 1,4-Dichlorobenzene          | 340           | U           |               |             |               |             |               |             |               |
| 1,2-Dichlorobenzene          | 340           | U           |               |             |               |             |               |             |               |
| 2-Methylphenol               | 340           | U           |               |             |               |             |               |             |               |
| 2,2'-oxybis(1-chloropropane) | 340           | U           |               |             |               |             |               |             |               |
| 4-Methylphenol               | 340           | U           |               |             |               |             |               |             |               |
| N-Nitroso-di-n-propylamine   | 340           | U           |               |             |               |             |               |             |               |
| Hexachloroethane             | 340           | U           |               |             |               |             |               |             |               |
| Nitrobenzene                 | 340           | U           |               |             |               |             |               |             |               |
| Isophorone                   | 340           | U           |               |             |               |             |               |             |               |
| 2-Nitrophenol                | 340           | U           |               |             |               |             |               |             |               |
| 2,4-Dimethylphenol           | 340           | U           |               |             |               |             |               |             |               |
| bis(2-Chloroethoxy)methane   | 340           | U           |               |             |               |             |               |             |               |
| 2,4-Dichlorophenol           | 340           | U           |               |             |               |             |               |             |               |
| 1,2,4-Trichlorobenzene       | 340           | U           |               |             |               |             |               |             |               |
| Naphthalene                  | 340           | U           |               |             |               |             |               |             |               |
| 4-Chloroaniline              | 340           | U           |               |             |               |             |               |             |               |
| Hexachlorobutadiene          | 340           | U           |               |             |               |             |               |             |               |
| 4-Chloro-3-methylphenol      | 340           | U           |               |             |               |             |               |             |               |
| 2-Methylnaphthalene          | 340           | U           |               |             |               |             |               |             |               |
| Hexachlorocyclopentadiene    | 340           | U           |               |             |               |             |               |             |               |
| 2,4,6-Trichlorophenol        | 340           | U           |               |             |               |             |               |             |               |
| 2,4,5-Trichlorophenol        | 860           | U           |               |             |               |             |               |             |               |
| 2-Chloronaphthalene          | 340           | U           |               |             |               |             |               |             |               |
| 2-Nitroaniline               | 860           | U           |               |             |               |             |               |             |               |
| Dimethylphthalate            | 340           | U           |               |             |               |             |               |             |               |
| Acenaphthylene               | 340           | U           |               |             |               |             |               |             |               |
| 2,6-Dinitrotoluene           | 340           | U           |               |             |               |             |               |             |               |
| 3-Nitroaniline               | 860           | U           |               |             |               |             |               |             |               |

| Sample Number:             | ECMP7    |      | ECMP8    |      | ECMP9    |      | ECMP9MS  |      | ECMP9MSD |      |
|----------------------------|----------|------|----------|------|----------|------|----------|------|----------|------|
| Sampling Location:         | SB09-10  |      | SB09-2   |      | SB07-0.5 |      | SB07-0.5 |      | SB07-0.5 |      |
| Matrix:                    | Soil |  | Soil |  | Soil |  | Soil |  | Soil |
| Units: | ug/kg |  | ug/kg |  | ug/kg |  | ug/kg |  | ug/kg    |      |
| Date Sampled:              | 10/21/98 |      | 10/21/98 |      | 10/21/98 |      | 10/21/98 |      | 10/21/98 |      |
| %Moisture:                 | 5        |      | 5        |      | 4        |      | 4        |      | 5        |      |
| PH:                        | 7.3      |      | 8        |      | 7.4      |      | 7        |      | 7.2      |      |
| Dilution Factor:           | 1.0      |      | 1.0      |      | 1.0      |      | 1.0      |      | 1.0      |      |
| Semivolatile Compound | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result   | Flag |
| Acenaphthene               | 350      | U    | 350      | U    | 340      | UJ   | 770      |      | 1100     |      |
| 2,4-Dinitrophenol          | 870      | U    | 870      | U    | 860      | U    | 860      | U    | 870      | U    |
| 4-Nitrophenol              | 870      | UJ   | 870      | UJ   | 860      | UJ   | 1200     | J    | 1800     | J    |
| Dibenzofuran               | 350      | U    | 350      | U    | 340      | U    | 340      | U    | 350      | U    |
| Dinitrotoluene             | 350      | U    | 350      | U    | 340      | U    | 780      |      | 1100     |      |
| Diethylphthalate           | 350      | U    | 350      | U    | 340      | U    | 340      | U    | 350      | U    |
| 4-Chlorophenyl-phenylether | 350      | U    | 350      | U    | 340      | U    | 340      | U    | 350      | U    |
| Fluorene                   | 350      | U    | 350      | U    | 340      | U    | 340      | U    | 350      | U    |
| 4-Nitroaniline             | 870      | U    | 870      | U    | 860      | U    | 860      | U    | 870      | U    |
| 4,6-Dinitro-2-methylphenol | 870      | U    | 870      | U    | 860      | U    | 860      | U    | 870      | U    |
| N-Nitrosodiphenylamine     | 350      | U    | 350      | U    | 340      | U    | 340      | U    | 350      | U    |
| Bromophenyl-phenylether    | 350      | U    | 350      | U    | 340      | U    | 340      | U    | 350      | U    |
| o-Chlorobenzene            | 350      | U    | 350      | U    | 340      | U    | 340      | U    | 350      | U    |
| Pentachlorophenol          | 870      | U    | 870      | U    | 860      | UJ   | 1200     |      | 2000     |      |
| Phenanthrene               | 350      | U    | 350      | U    | 340      | U    | 340      | U    | 350      | U    |
| Anthracene                 | 350      | U    | 350      | U    | 340      | U    | 340      | U    | 350      | U    |
| Carbazole                  | 350      | U    | 350      | U    | 340      | U    | 340      | U    | 350      | U    |
| Di-n-butylphthalate        | 350      | UJ   | 350      | UJ   | 340      | UJ   | 340      | UJ   | 350      | UJ   |
| Fluoranthene               | 350      | U    | 350      | U    | 340      | U    | 340      | U    | 350      | U    |
| Pyrene                     | 350      | U    | 350      | U    | 340      | UJ   | 960      |      | 1500     |      |
| Butylbenzylphthalate       | 350      | U    | 350      | U    | 340      | U    | 340      | U    | 350      | U    |
| 1,2-Dichlorobenzidine      | 350      | U    | 350      | U    | 340      | U    | 340      | U    | 350      | U    |
| Benzo(a)anthracene         | 350      | U    | 350      | U    | 340      | U    | 340      | U    | 350      | U    |
| Chrysene                   | 350      | U    | 350      | U    | 340      | U    | 340      | U    | 350      | U    |
| bis(2-Ethylhexyl)phthalate | 470      | J    | 2600     | J    | 690      | J    | 250      | J    | 710      | J    |
| Di-n-octylphthalate        | 350      | UJ   | 350      | UJ   | 340      | UJ   | 340      | UJ   | 350      | UJ   |
| Benzo(b)fluoranthene       | 350      | U    | 350      | U    | 340      | U    | 340      | U    | 350      | U    |
| Benzo(k)fluoranthene       | 350      | U    | 350      | U    | 340      | U    | 340      | U    | 350      | U    |
| Benzo(a)pyrene             | 350      | U    | 350      | U    | 340      | U    | 340      | U    | 350      | U    |
| Indeno(1,2,3-cd)pyrene     | 350      | U    | 350      | U    | 340      | U    | 340      | U    | 350      | U    |
| Dibenz(a,h)anthracene      | 350      | U    | 350      | U    | 340      | U    | 340      | U    | 350      | U    |
| Benzo(g,h,i)perylene       | 350      | U    | 350      | U    | 340      | U    | 340      | U    | 350      | U    |

Case #: 26593 SDG: ECMP3  
 Site: HIMCO DUMP, ELKHART  
 Lab.: IEANJ  
 Reviewer:  
 Date:

| Sample Number:               | ECMP7    | ECMP8    | ECMP9    | ECMP9MS  | ECMP9MSD |      |        |      |        |      |
|------------------------------|----------|----------|----------|----------|----------|------|--------|------|--------|------|
| Sampling Location:           | SB09-10  | SB09-2   | SB07-0.5 | SB07-0.5 | SB07-0.5 |      |        |      |        |      |
| Matrix:                      | Soil     | Soil     | Soil     | Soil     | Soil     |      |        |      |        |      |
| Units:                       | ug/kg    | ug/kg    | ug/kg    | ug/kg    | ug/kg    |      |        |      |        |      |
| Date Sampled:                | 10/21/98 | 10/21/98 | 10/21/98 | 10/21/98 | 10/21/98 |      |        |      |        |      |
| %Moisture:                   | 5        | 5        | 4        | 4        | 5        |      |        |      |        |      |
| PH:                          | 7.3      | 8        | 7.4      | 7        | 7.2      |      |        |      |        |      |
| Dilution Factor:             | 1.0      | 1.0      | 1.0      | 1.0      | 1.0      |      |        |      |        |      |
| Semivolatile Compound        | Result   | Flag     | Result   | Flag     | Result   | Flag | Result | Flag | Result | Flag |
| Phenol                       | 350      | U        | 350      | U        | 340      | UJ   | 1400   |      | 2500   |      |
| bis(2-Chloroethyl)ether      | 350      | U        | 350      | U        | 340      | U    | 340    | U    | 350    | U    |
| 2-Chlorophenol               | 350      | U        | 350      | U        | 340      | U    | 1300   |      | 1900   |      |
| 1,3-Dichlorobenzene          | 350      | U        | 350      | U        | 340      | U    | 340    | U    | 350    | U    |
| 1,4-Dichlorobenzene          | 350      | U        | 350      | U        | 340      | UJ   | 790    |      | 1100   |      |
| 1,2-Dichlorobenzene          | 350      | U        | 350      | U        | 340      | U    | 340    | U    | 350    | U    |
| 2-Methylphenol               | 350      | U        | 350      | U        | 340      | U    | 340    | U    | 350    |      |
| 2,2'-oxybis(1-chloropropane) | 350      | U        | 350      | U        | 340      | U    | 340    | U    | 350    |      |
| 4-Methylphenol               | 350      | U        | 350      | U        | 340      | U    | 340    | U    | 350    |      |
| N-Nitroso-di-n-propylamine   | 350      | U        | 350      | U        | 340      | U    | 820    |      | 1100   |      |
| Hexachlorobutadiene          | 350      | UJ       | 350      | UJ       | 340      | UJ   | 340    | UJ   | 350    | UJ   |
| Nitrobenzene                 | 350      | U        | 350      | U        | 340      | U    | 340    | U    | 350    | U    |
| Isophorone                   | 350      | U        | 350      | U        | 340      | U    | 340    | U    | 350    | U    |
| 2-Nitrophenol                | 350      | U        | 350      | U        | 340      | U    | 340    | U    | 350    | U    |
| 2,4-Dimethylphenol           | 350      | U        | 350      | U        | 340      | U    | 340    | U    | 350    | U    |
| bis(2-Chloroethoxy)methane   | 350      | U        | 350      | U        | 340      | U    | 340    | U    | 350    | U    |
| 2,4-Dichlorophenol           | 350      | U        | 350      | U        | 340      | U    | 340    | U    | 350    |      |
| 1,2,4-Trichlorobenzene       | 350      | U        | 350      | U        | 340      | UJ   | 770    |      | 1100   |      |
| Naphthalene                  | 350      | U        | 350      | U        | 340      | U    | 340    | U    | 350    | U    |
| 4-Chloroaniline              | 350      | U        | 350      | U        | 340      | U    | 340    | U    | 350    | U    |
| Hexachlorobutadiene          | 350      | U        | 350      | U        | 340      | U    | 340    | U    | 350    | U    |
| 4-Chloro-3-methylphenol      | 350      | U        | 350      | U        | 340      | UJ   | 1400   |      | 2100   |      |
| 2-Methylnaphthalene          | 350      | U        | 350      | U        | 340      | U    | 340    | U    | 350    | U    |
| Hexachlorocyclopentadiene    | 350      | U        | 350      | U        | 340      | U    | 340    | U    | 350    | U    |
| 2,4,6-Trichlorophenol        | 350      | U        | 350      | U        | 340      | U    | 340    | U    | 350    | U    |
| 2,4,5-Trichlorophenol        | 870      | U        | 870      | U        | 860      | U    | 860    | U    | 870    | U    |
| 2-Chloronaphthalene          | 350      | U        | 350      | U        | 340      | U    | 340    | U    | 350    | U    |
| 2-Nitroaniline               | 870      | U        | 870      | U        | 860      | U    | 860    | U    | 870    | U    |
| Dimethylphthalate            | 350      | U        | 350      | U        | 340      | U    | 340    | U    | 350    | U    |
| Acenaphthylene               | 350      | U        | 350      | U        | 340      | U    | 340    | U    | 350    | U    |
| 2,6-Dinitrotoluene           | 350      | U        | 350      | U        | 340      | U    | 340    | U    | 350    | U    |
| 3-Nitroaniline               | 870      | U        | 870      | U        | 860      | U    | 860    | U    | 870    | U    |

| Sample Number:             | ECMP3    | ECMP4    | ECMP4DL  | ECMP5    | ECMP6    |      |        |      |        |      |
|----------------------------|----------|----------|----------|----------|----------|------|--------|------|--------|------|
| Sampling Location:         | SB11-0.5 | SB11-2   | SB11-2   | SB11-6   | SB09-0.5 |      |        |      |        |      |
| Matrix:                    | Soil     | Soil     | Soil     | Soil     | Soil     |      |        |      |        |      |
| Units:                     | ug/kg    | ug/kg    | ug/kg    | ug/kg    | ug/kg    |      |        |      |        |      |
| Date Sampled:              | 10/21/98 | 10/21/98 | 10/21/98 | 10/21/98 | 10/21/98 |      |        |      |        |      |
| %Moisture:                 | 8        | 4        | 4        | 4        | 6        |      |        |      |        |      |
| PH:                        | 7.8      | 8.3      | 8.3      | 8.1      | 7.2      |      |        |      |        |      |
| Dilution Factor:           | 1.0      | 1.0      | 2.0      | 1.0      | 1.0      |      |        |      |        |      |
| Semivolatile Compound      | Result   | Flag     | Result   | Flag     | Result   | Flag | Result | Flag | Result | Flag |
| Acenaphthene               | 360      | U        | 160      | J        | 160      | J    | 340    | U    | 350    | U    |
| 2,4-Dinitrophenol          | 900      | U        | 860      | U        | 1700     | U    | 860    | U    | 880    | U    |
| 4-Nitrophenol              | 900      | UJ       | 860      | UJ       | 1700     | UJ   | 860    | UJ   | 880    | UJ   |
| Dibenzofuran               | 360      | U        | 78       | J        | 75       | J    | 340    | U    | 350    | U    |
| 2,4-Dinitrotoluene         | 360      | U        | 340      | U        | 690      | U    | 340    | U    | 350    | U    |
| 1,2,4-Trichlorophthalate   | 360      | U        | 340      | U        | 690      | U    | 340    | U    | 350    | U    |
| 4-Chlorophenyl-phenylether | 360      | U        | 340      | U        | 690      | U    | 340    | U    | 350    | U    |
| Fluorene                   | 360      | U        | 160      | J        | 160      | J    | 340    | U    | 350    | U    |
| 4-Nitroaniline             | 900      | U        | 860      | U        | 1700     | U    | 860    | U    | 880    | U    |
| 4,6-Dinitro-2-methylphenol | 900      | U        | 860      | U        | 1700     | U    | 860    | U    | 880    | U    |
| N-Nitrosodiphenylamine     | 360      | U        | 340      | U        | 690      | U    | 340    | U    | 350    | U    |
| 4-Bromophenyl-phenylether  | 360      | U        | 340      | U        | 690      | U    | 340    | U    | 350    | U    |
| Hexachlorobenzene          | 360      | U        | 340      | U        | 690      | U    | 340    | U    | 350    | U    |
| 1,2,4-Trichlorophenol      | 900      | U        | 860      | U        | 1700     | U    | 860    | U    | 880    | U    |
| Fluorene                   | 200      | J        | 4000     |          | 3300     |      | 340    | U    | 350    | U    |
| Anthracene                 | 360      | U        | 460      |          | 460      | J    | 340    | U    | 350    | U    |
| Carbazole                  | 360      | U        | 210      | J        | 210      | J    | 340    | U    | 350    | U    |
| Di-n-butylphthalate        | 360      | UJ       | 340      | UJ       | 690      | U    | 340    | UJ   | 350    | UJ   |
| Fluoranthene               | 400      |          | 4600     |          | 4600     |      | 51     | J    | 350    | U    |
| Pyrene                     | 470      |          | 3800     |          | 3800     |      | 340    | U    | 350    | U    |
| Butylbenzylphthalate       | 360      | U        | 340      | U        | 690      | U    | 340    | U    | 350    | U    |
| 3,3'-Dichlorobenzidine     | 360      | U        | 340      | U        | 690      | U    | 340    | U    | 350    | U    |
| Benzo(a)anthracene         | 280      | J        | 1500     |          | 1500     |      | 42     | J    | 350    | U    |
| Fluorene                   | 320      | J        | 1400     |          | 1500     |      | 51     | J    | 350    | U    |
| bis(2-Ethylhexyl)phthalate | 42       | J        | 74       | J        | 90       | J    | 39     | J    | 440    | J    |
| Di-n-octylphthalate        | 360      | UJ       | 340      | UJ       | 690      | UJ   | 340    | UJ   | 350    | UJ   |
| Benzo(b)fluoranthene       | 560      |          | 1900     |          | 1500     |      | 75     | J    | 350    | U    |
| Benzo(k)fluoranthene       | 150      | J        | 560      |          | 420      | J    | 340    | U    | 350    | U    |
| Benzo(a)pyrene             | 430      |          | 1500     |          | 1300     |      | 57     | J    | 350    | U    |
| Indeno(1,2,3-cd)pyrene     | 540      |          | 490      |          | 770      |      | 48     | J    | 350    | U    |
| Dibenz(a,h)anthracene      | 140      | J        | 130      | J        | 230      | J    | 340    | U    | 350    | U    |
| Benzo(g,h,i)perylene       | 710      |          | 470      |          | 860      |      | 63     | J    | 350    | U    |

Case #: 26593

SDG: ECMP3

Site:

HIMCO DUMP, ELKHART

Lab.:

IEANJ

Reviewer:

Date:

| Sample Number:               | ECMP3    | ECMP4    | ECMP4DL  | ECMP5    | ECMP6    |      |        |      |        |      |
|------------------------------|----------|----------|----------|----------|----------|------|--------|------|--------|------|
| Sampling Location:           | SB11-0.5 | SB11-2   | SB11-2   | SB11-6   | SB09-0.5 |      |        |      |        |      |
| Matrix:                      | Soil     | Soil     | Soil     | Soil     | Soil     |      |        |      |        |      |
| Units:                       | ug/kg    | ug/kg    | ug/kg    | ug/kg    | ug/kg    |      |        |      |        |      |
| Date Sampled:                | 10/21/98 | 10/21/98 | 10/21/98 | 10/21/98 | 10/21/98 |      |        |      |        |      |
| %Moisture:                   | 8        | 4        | 4        | 4        | 6        |      |        |      |        |      |
| PH:                          | 7.8      | 8.3      | 8.3      | 8.1      | 7.2      |      |        |      |        |      |
| Dilution Factor:             | 1.0      | 1.0      | 2.0      | 1.0      | 1.0      |      |        |      |        |      |
| Semivolatile Compound        | Result   | Flag     | Result   | Flag     | Result   | Flag | Result | Flag | Result | Flag |
| Phenol                       | 360      | U        | 340      | U        | 690      | U    | 340    | U    | 350    | U    |
| bis(2-Chloroethyl)ether      | 360      | U        | 340      | U        | 690      | U    | 340    | U    | 350    | U    |
| 2-Chlorophenol               | 360      | U        | 340      | U        | 690      | U    | 340    | U    | 350    | U    |
| 1,3-Dichlorobenzene          | 360      | U        | 340      | U        | 690      | U    | 340    | U    | 350    | U    |
| 1,4-Dichlorobenzene          | 360      | U        | 340      | U        | 690      | U    | 340    | U    | 350    | U    |
| 1,2-Dichlorobenzene          | 360      | U        | 340      | U        | 690      | U    | 340    | U    | 350    | U    |
| 2-Methylphenol               | 360      | U        | 340      | U        | 690      | U    | 340    | U    | 350    | U    |
| 2,2'-oxybis(1-chloropropane) | 360      | U        | 340      | U        | 690      | U    | 340    | U    | 350    | U    |
| 4-Methylphenol               | 360      | U        | 340      | U        | 690      | U    | 340    | U    | 350    | U    |
| N-Nitroso-di-n-propylamine   | 360      | U        | 340      | U        | 690      | U    | 340    | U    | 350    | U    |
| Hexachloroethane             | 360      | U        | 340      | U        | 690      | U    | 340    | U    | 350    | U    |
| Nitrobenzene                 | 360      | U        | 340      | U        | 690      | U    | 340    | U    | 350    | U    |
| Isophorone                   | 360      | U        | 340      | U        | 690      | U    | 340    | U    | 350    | U    |
| 2-Nitrophenol                | 360      | U        | 340      | U        | 690      | U    | 340    | U    | 350    | U    |
| 2,4-Dimethylphenol           | 360      | U        | 340      | U        | 690      | U    | 340    | U    | 350    | U    |
| bis(2-Chloroethoxy)methane   | 360      | U        | 340      | U        | 690      | U    | 340    | U    | 350    | U    |
| 2,4-Dichlorophenol           | 360      | U        | 340      | U        | 690      | U    | 340    | U    | 350    | U    |
| 1,2,4-Trichlorobenzene       | 360      | U        | 340      | U        | 690      | U    | 340    | U    | 350    | U    |
| Naphthalene                  | 360      | U        | 340      | U        | 690      | U    | 340    | U    | 350    | U    |
| 4-Chloroaniline              | 360      | U        | 340      | U        | 690      | U    | 340    | U    | 350    | U    |
| Hexachlorobutadiene          | 360      | U        | 340      | U        | 690      | U    | 340    | U    | 350    | U    |
| 4-Chloro-3-methylphenol      | 360      | U        | 340      | U        | 690      | U    | 340    | U    | 350    | U    |
| 2-Methylnaphthalene          | 360      | U        | 340      | U        | 690      | U    | 340    | U    | 350    | U    |
| Hexachlorocyclopentadiene    | 360      | U        | 340      | U        | 690      | U    | 340    | U    | 350    | U    |
| 2,4,6-Trichlorophenol        | 360      | U        | 340      | U        | 690      | U    | 340    | U    | 350    | U    |
| 2,4,5-Trichlorophenol        | 900      | U        | 860      | U        | 1700     | U    | 860    | U    | 880    | U    |
| 2-Chloronaphthalene          | 360      | U        | 340      | U        | 690      | U    | 340    | U    | 350    | U    |
| 2-Nitroaniline               | 900      | U        | 860      | U        | 1700     | U    | 860    | U    | 880    | U    |
| Dimethylphthalate            | 360      | U        | 340      | U        | 690      | U    | 340    | U    | 350    | U    |
| Acenaphthylene               | 360      | U        | 340      | U        | 690      | U    | 340    | U    | 350    | U    |
| 2,6-Dinitrotoluene           | 360      | U        | 340      | U        | 690      | U    | 340    | U    | 350    | U    |
| 3-Nitroaniline               | 900      | U        | 860      | U        | 1700     | U    | 860    | U    | 880    | U    |

Case #: 26593

SDG: ECMP3

Site:

HIMCO DUMP, ELKHART

Lab.:

IEANJ

Reviewer:

Date:

| Sample Number:            | ECMP8    | ECMP9    | ECMP9MS  | ECMP9MSD | ECMP9MSD | ECMP9MSD | ECMP9MSD | ECMP9MSD | ECMP9MSD |      |
|---------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|------|
| Sampling Location:        | SB09-2   | SB07-0.5 | SB07-2   |      |
| Matrix:                   | Soil     |      |
| Units:                    | ug/kg    |      |
| Date Sampled:             | 10/21/98 | 10/21/98 | 10/21/98 | 10/21/98 | 10/21/98 | 10/21/98 | 10/21/98 | 10/21/98 | 10/21/98 |      |
| %Moisture:                | 5        | 4        | 4        | 4        | 5        | 5        | 5        | 5        | 3        |      |
| PH:                       |          |          |          |          |          |          |          |          |          |      |
| Dilution Factor:          | 1.0      | 1.0      | 1.0      | 1.0      | 1.0      | 1.0      | 1.0      | 1.0      | 1.0      |      |
| Volatile Compound         | Result   | Flag     | Result   | Flag     | Result   | Flag     | Result   | Flag     | Result   | Flag |
| Chloromethane             | 10       | U        | 10       | U        | 10       | U        | 10       | U        | 10       | U    |
| Chloroethane              | 10       | U        | 10       | U        | 10       | U        | 10       | U        | 10       | U    |
| 1,1-Dichloroethane        | 10       | U        | 10       | U        | 10       | U        | 10       | U        | 10       | U    |
| 1,2-Dichloroethane        | 10       | U        | 10       | U        | 10       | U        | 10       | U        | 10       | U    |
| 1,1,1-Trichloroethane     | 10       | U        | 10       | U        | 10       | U        | 10       | U        | 10       | U    |
| 1,1,2-Trichloroethane     | 10       | U        | 10       | U        | 10       | U        | 10       | U        | 10       | U    |
| 1,1,2,2-Tetrachloroethane | 10       | U        | 10       | U        | 10       | U        | 10       | U        | 10       | U    |
| 1,2-Dichloropropane       | 10       | U        | 10       | U        | 10       | U        | 10       | U        | 10       | U    |
| Cis-1,3-Dichloropropene   | 10       | U        | 10       | U        | 10       | U        | 10       | U        | 10       | U    |
| Trichloroethene           | 10       | U        | 10       | U        | 58       | U        | 64       | U        | 10       | U    |
| Bromochloromethane        | 10       | U        | 10       | U        | 10       | U        | 10       | U        | 10       | U    |
| Bromoform                 | 10       | U        | 10       | U        | 10       | U        | 10       | U        | 10       | U    |
| 4-Methyl-2-pentanone      | 10       | U        | 10       | U        | 10       | U        | 10       | U        | 10       | U    |
| 2-Hexanone                | 10       | U        | 10       | U        | 10       | U        | 10       | U        | 10       | U    |
| Toluene                   | 10       | U        | 10       | U        | 62       | U        | 62       | U        | 10       | U    |
| Chlorobenzene             | 10       | U        | 10       | U        | 69       | U        | 67       | U        | 10       | U    |
| Ethylbenzene              | 10       | U        | 10       | U        | 10       | U        | 10       | U        | 10       | U    |
| Styrene                   | 10       | U        | 10       | U        | 10       | U        | 10       | U        | 10       | U    |
| Xylene (total)            | 10       | U        | 10       | U        | 10       | U        | 10       | U        | 10       | U    |

Analytical Results (Qualified Data)

Case #: 26593  
 Site: SB11-0.5  
 Lab.: HIMCO DUMP, ELKHART  
 Reviewer: IEANJ  
 Date:

| Sample Number:     | ECMP3    | ECMP4    | ECMP5    | ECMP6    | ECMP7    |
|--------------------|----------|----------|----------|----------|----------|
| Sampling Location: | SB11-0.5 | SB11-2   | SB11-6   | SB09-0.5 | SB09-10  |
| Matrix:            | Soil     | Soil     | Soil     | Soil     | Soil     |
| Units:             | ug/kg    | ug/kg    | ug/kg    | ug/kg    | ug/kg    |
| Date Sampled:      | 10/21/98 | 10/21/98 | 10/21/98 | 10/21/98 | 10/21/98 |
| %Moisture:         | 8        | 4        | 4        | 6        | 5        |
| PH:                |          |          |          |          |          |
| Dilution Factor:   | 1.0      | 1.0      | 1.0      | 1.0      | 1.0      |

| Volatile Compound         | Result | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag |
|---------------------------|--------|------|--------|------|--------|------|--------|------|--------|------|
| Chloromethane             | 11     | U    | 10     | U    | 10     | U    | 11     | U    | 10     | U    |
| Bromomethane              | 11     | U    | 10     | U    | 10     | U    | 11     | U    | 10     | U    |
| Vinyl Chloride            | 11     | U    | 10     | U    | 10     | U    | 11     | U    | 10     | U    |
| Chloroethane              | 11     | U    | 10     | U    | 10     | U    | 11     | U    | 10     | U    |
| Methylene Chloride        | 11     | U    | 10     | U    | 10     | U    | 11     | U    | 10     | U    |
| Acetone                   | 11     | U    | 10     | U    | 10     | U    | 11     | U    | 10     | U    |
| Carbon Disulfide          | 11     | U    | 10     | U    | 10     | U    | 11     | U    | 10     | U    |
| 1,1-Dichloroethene        | 11     | U    | 10     | U    | 10     | U    | 11     | U    | 10     | U    |
| 1,1-Dichloroethane        | 11     | U    | 10     | U    | 10     | U    | 11     | U    | 10     | U    |
| Total 1,2-Dichloroethene  | 11     | U    | 10     | U    | 10     | U    | 11     | U    | 10     | U    |
| Chloroform                | 11     | U    | 10     | U    | 10     | U    | 11     | U    | 10     | U    |
| 1,2-Dichloroethane        | 11     | U    | 10     | U    | 10     | U    | 11     | U    | 10     | U    |
| 2-Butanone                | 11     | U    | 10     | U    | 10     | U    | 11     | U    | 10     | U    |
| 1,1,1-Trichloroethane     | 11     | U    | 10     | U    | 10     | U    | 11     | U    | 10     | U    |
| Carbon Tetrachloride      | 11     | U    | 10     | U    | 10     | U    | 11     | U    | 10     | U    |
| Bromodichloromethane      | 11     | U    | 10     | U    | 10     | U    | 11     | U    | 10     | U    |
| 1,2-Dichloropropane       | 11     | U    | 10     | U    | 10     | U    | 11     | U    | 10     | U    |
| Cis-1,3-Dichloropropene   | 11     | U    | 10     | U    | 10     | U    | 11     | U    | 10     | U    |
| Trichloroethene           | 11     | U    | 10     | U    | 10     | U    | 11     | U    | 10     | U    |
| Dibromochloromethane      | 11     | U    | 10     | U    | 10     | U    | 11     | U    | 10     | U    |
| 1,1,2-Trichloroethane     | 11     | U    | 10     | U    | 10     | U    | 11     | U    | 10     | U    |
| Benzene                   | 11     | U    | 10     | U    | 10     | U    | 11     | U    | 10     | U    |
| Trans-1,3-Dichloropropene | 11     | U    | 10     | U    | 10     | U    | 11     | U    | 10     | U    |
| Bromoform                 | 11     | U    | 10     | U    | 10     | U    | 11     | U    | 10     | U    |
| 4-Methyl-2-pentanone      | 11     | U    | 10     | U    | 10     | U    | 11     | U    | 10     | U    |
| 2-Hexanone                | 11     | U    | 10     | U    | 10     | U    | 11     | U    | 10     | U    |
| Tetrachloroethene         | 11     | U    | 10     | U    | 10     | U    | 11     | U    | 10     | U    |
| 1,1,2,2-Tetrachloroethane | 11     | U    | 10     | U    | 10     | U    | 11     | U    | 10     | U    |
| Toluene                   | 11     | U    | 10     | U    | 10     | U    | 11     | U    | 10     | U    |
| Chlorobenzene             | 11     | U    | 10     | U    | 10     | U    | 11     | U    | 10     | U    |
| Ethylbenzene              | 11     | U    | 10     | U    | 10     | U    | 11     | U    | 10     | U    |
| Styrene                   | 11     | U    | 10     | U    | 10     | U    | 11     | U    | 10     | U    |
| Xylene (total)            | 11     | U    | 10     | U    | 10     | U    | 11     | U    | 10     | U    |

CADRE Data Qualifier Sheet

| <u>Qualifiers</u> | <u>Data Qualifier Definitions</u>   |
|-------------------|---|
| U                 | The analyte was analyzed for, but was not detected above the reported sample quantitation limit.  |
| J                 | The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.   |
| UJ                | The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the action limit of quantitation necessary to accurately and precisely measure the analyte in the sample. |
| N                 | The analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification.   |
| NJ                | The analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification and the associated numerical value represents its approximate concentration.   |
| R                 | The data are unusable. (The compound may or may not be present)   |
| H                 | Sample result is estimated and biased high.   |
| L                 | Sample result is estimated and biased low.  |

Case Number : 26593  
 Site Name: HIMCO DUMP (IN)

SDG Number: ECMP3  
 Laboratory: IEA

## 12. ADDITIONAL INFORMATION

pH Table.

| Sample ID: | Matrix: | pH  | Sample ID: | Martrix: | pH  |
|------------|---------|-----|------------|----------|-----|
| ECMP3      | Soil    | 7.8 | ECMP7      | Soil     | 7.3 |
| ECMP4      | Soil    | 8.3 | ECMP8      | Soil     | 8.0 |
| ECMP5      | Soil    | 8.1 | ECMP9      | Soil     | 7.4 |
| ECMP6      | Soil    | 7.2 | ECMQ6      | Soil     | 7.9 |

benanthrene, Fluoranthene and Pyrene exceeded the instrument's calibration range in semivolatile sample ECMP4; the results from ECMP4DL should be considered the concentrations for these analytes.

Reviewed By: A.C. Harvey/Lockheed-Martin ESAT  
 Date: November 18, 1998

Case Number : 26593  
Site Name: HIMCO DUMP (IN)

SDG Number: ECMP3  
Laboratory: IEA

## 8. INTERNAL STANDARDS

No problems found for this qualification.

## 9. COMPOUND IDENTIFICATION

After reviewing the mass spectra and chromatograms it appears that all VOA, SVOA, and Pesticide/PC compounds were properly identified.

## 10. COMPOUND QUANTITATION AND REPORTED DETECTION LIMITS

The following semivolatile samples have analyte concentrations below the quantitation limit (CRQL). All results below the CRQL are qualified "J".

### ECMP3

Phenanthrene, Benzo(a)anthracene, Chrysene, bis(2-Ethylhexyl)phthalate,  
Benzo(k)fluoranthene, Dibenz(a,h)anthracene

### ECMP4

Acenaphthene, Dibenzofuran, Fluorene, Carbazole, bis(2-Ethylhexyl)phthalate,  
Dibenz(a,h)anthracene

### ECMP4DL

Acenaphthene, Dibenzofuran, Fluorene, Anthracene, Carbazole, bis(2-Ethylhexyl)phthalate,  
Benzo(k)fluoranthene, Dibenz(a,h)anthracene

### ECMP5

Fluoranthene, Benzo(a)anthracene, Chrysene, bis(2-Ethylhexyl)phthalate,  
Benzo(b)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Benzo(g,h,i)perylene

### ECMP9MS

bis(2-Ethylhexyl)phthalate

### SBLKH5

Pyrene

## 11. SYSTEM PERFORMANCE

GC/MS baseline indicated acceptable performance. The GC baseline for the pesticide analysis was acceptable.

Reviewed By: A.C. Harvey/Lockheed-Martin ESAT  
Date: November 18, 1998

Case Number : 26593  
 Site Name: HIMCO DUMP (IN)

SDG Number: ECMP3  
 Laboratory: IEA

Di-n-butylphthalate

ECMP3, ECMP4, ECMP5, ECMP6, ECMP7, ECMP8, ECMP9, ECMP9MS, ECMP9MSD,  
 ECMQ6, SBLKH5

#### 4. BLANKS

The following semivolatile samples have analyte concentrations reported below the CRQL and less than or equal to five times (5X) the associated method blank concentration. Reported sample concentrations have been elevated to the CRQL. Hits are flagged "U" and non-detects are not flagged.

ECMP5

Pyrene

#### SYSTEM MONITORING COMPOUND AND SURROGATE RECOVERY

No problems found for this qualification.

#### 6. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

The relative percent difference (RPD) between the following semivolatile matrix spike and matrix spike duplicate recoveries is outside criteria.

ECMP9MS, ECMP9MSD

Phenol, 1,4-Dichlorobenzene, 1,2,4-Trichlorobenzene, 4-Chloro-3-methylphenol,  
 Acenaphthene, Pentachlorophenol, Pyrene

The following semivolatile matrix spike/matrix spike duplicate samples have percent recovery outside criteria.

ECMP9MSD

Phenol

The presence of Phenol, 1,4-Dichlorobenzene, 1,2,4-Trichlorobenzene, 4-Chloro-3-methylphenol, Acenaphthene, Pentachlorophenol and Pyrene in the unspiked sample, ECMP9, is qualified "J" and non-detects are flagged "UJ".

#### 7. FIELD BLANK AND FIELD DUPLICATE

No samples were field blanks or field duplicates. Results are not qualified based upon the results of the field blank or field duplicates.

Reviewed By: A.C.Harvey/Lockheed-Martin ESAT

Date: November 18, 1998

Case Number : 26593  
Site Name: HIMCO DUMP (IN)

SDG Number: ECMP3  
Laboratory: IEA

### 1. HOLDING TIME

No problems found for this qualification.

### 2. GC/MS TUNING AND GC INSTRUMENT PERFORMANCE

No problems found for this qualification.

### 3. CALIBRATION

The following volatile samples are associated with a continuing calibration whose corresponding initial calibration has percent relative standard deviation (%RSD) outside primary criteria. Hits are qualified "J" and non-detects are flagged "UJ".

Bromomethane, 2-Butanone  
VBLKE7, VHBLKE2

Chloroethane  
ECMP3, ECMP4, ECMP5, ECMP6, ECMP7, ECMP8, ECMP9, ECMP9MS, ECMP9M  
ECMQ6, VBLKE4

The following volatile samples are associated with a continuing calibration percent difference (%D) outside primary criteria. Hits are qualified "J" and non-detects are qualified "UJ".

Chloromethane, Tetrachloroethene  
ECMP3, ECMP4, ECMP5, ECMP6, ECMP7, ECMP8, ECMP9, ECMP9MS, ECMP9MSD,  
ECMQ6, VBLKE4

1,1,2,2-Tetrachloroethane  
VBLKE7, VHBLKE2

The following semivolatile samples are associated with a continuing calibration percent difference (%D) outside primary criteria. Hits are qualified "J" and non-detects are qualified "UJ".

Hexachloroethane, 4-Nitrophenol, bis(2-Ethylhexyl)phthalate, Di-n-octylphthalate  
ECMP3, ECMP4, ECMP4DL, ECMP5, ECMP6, ECMP7, ECMP8, ECMP9, ECMP9MS,  
ECMP9MSD, ECMQ6, SBLKH5

2,4-Dimethylphenol, Hexachlorobutadiene, Hexachlorocyclopentadiene  
ECMP4DL

Reviewed By: A.C. Harvey/Lockheed-Martin ESAT  
Date: November 18, 1998

Case Number : 26593  
Site Name: HIMCO DUMP (IN)

SDG Number: ECMP3  
Laboratory: IEA

Below is a summary of the out-of-control audits and the possible effects on the data for this case:

*Eight (8) soil samples, numbered ECMP3 through ECMP9, and ECMQ6 were collected on October 21, 1998. The lab received the samples on October 22, 1998 in good condition. All samples were analyzed for the volatile and semivolatile list of organic analytes. All were analyzed according to CLP SOW OLM03.2 3/90.*

Reviewed By: A.C. Harvey/Lockheed-Martin ESAT  
Date: November 18, 1998

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION V

DATE: \_\_\_\_\_

SUBJECT: Review of Data  
Received for Review on November 16, 1998

FROM: Stephen L. Ostrodka, Chief (SRT-4J) *For Steve Ostrodka*  
Superfund Technical Support Section *Richard L. Byrd*  
*11/24/98*

TO: Data User: USACE

We have reviewed the data for the following case:

SITE NAME: HIMCO DUMP (IN)

CASE NUMBER: 26593 SDG NUMBER: ECMP3

Number and Type of Samples: 8 Soils SVOCs + VOCs

Sample Numbers: ECMP3 - ECMP9, ECMQ6

Laboratory: IEA Hrs. for Review: 8.5 + 0.5

Following are our findings:

*The data are usable and acceptable with the qualifications described in the attached memorandum.*  
*Richard L. Byrd*

CC: Cecilia Lockett Moore  
Region 5 TPO  
Mail Code: SM-5J

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION V

ESD Central Regional Laboratory  
Data Tracking Form for Contract Samples

Data Set No: \_\_\_\_\_ CERCLIS No: IN/054J  
Case No: 26551 Site Name Location: Hinned Dump  
Contractor or EPA Lab: Compuchem Data User: US Army Corp of Engineers  
No. of Samples: 14 Date Sampled or Data Received: 11-3-98

Have Chain-of-Custody records been received? Yes  No   
Have traffic reports or packing lists been received? Yes  No   
If no, are traffic report or packing list numbers written on the chain-of-custody record? Yes  No   
If no, which traffic report or packing list numbers are missing?  
\_\_\_\_\_  
\_\_\_\_\_

Are basic data forms in? Yes  No   
No of samples claimed: 14 No. of samples received: 14  
Received by: Lynette Burnett Date: 11-3-98  
Received by LSSS: Lynette Burnett Date: 11-3-98  
Review started: 11-9-98 Reviewer Signature: Stephane Tobin  
Total time spent on review: 11 hrs Date review completed: 11-10-98  
Copied by: Lynette Burnett Date: 11-25-98  
Mailed to user by: Lynette Burnett Date: 11-25-98

**DATA USER:**

Please fill in the blanks below and return this form to:  
Sylvia Griffen, Data mgmt. Coordinator, Region V, 5SCRL

Data received by: \_\_\_\_\_ Date: \_\_\_\_\_  
Data review received by: \_\_\_\_\_ Date: \_\_\_\_\_

Inorganic Data Complete [ ] Suitable for Intended Purpose [ ]  if O:  
Organic Data Complete [ ] Suitable for Intended Purpose [ ]  if O:  
Dioxin Data Complete [ ] Suitable for Intended Purpose [ ]  if O:  
SAS Data Complete [ ] Suitable for Intended Purpose [ ]  if O:

**PROBLEMS:** Please indicate reasons why data are not suitable for your uses.  
\_\_\_\_\_  
\_\_\_\_\_

Received by Data Mgmt. Coordinator for Files. Data: \_\_\_\_\_

## Analytical Results (Qualified Data)

Page 12 of 17

Case #: 26551                   SDG: ECMK2  
 Site:                           HIMCO DUMP, ELKHART  
 Lab. :                          COMPUCHEM  
 Reviewer:                    S. Tobin  
 Date:                          11/09/98

| Sample Number:             | ECMK5    | ECMK6    | ECMK7    |      |        |      |        |      |        |      |
|----------------------------|----------|----------|----------|------|--------|------|--------|------|--------|------|
| Sampling Location:         | SB16-2   | SB16-6   | SB16-60  |      |        |      |        |      |        |      |
| Matrix:                    | Soil     | Soil     | Soil     |      |        |      |        |      |        |      |
| Units:                     | ug/kg    | ug/kg    | ug/kg    |      |        |      |        |      |        |      |
| Date Sampled:              | 10/15/98 | 10/15/98 | 10/15/98 |      |        |      |        |      |        |      |
| %Moisture:                 | 5        | 20       | 16       |      |        |      |        |      |        |      |
| PH:                        | 7.8      | 6.2      | 7.7      |      |        |      |        |      |        |      |
| Dilution Factor:           | 1.0      | 1.0      | 1.0      |      |        |      |        |      |        |      |
| Semivolatile Compound      | Result   | Flag     | Result   | Flag | Result | Flag | Result | Flag | Result | Flag |
| Acenaphthene               | 350      | U        | 410      | U    | 390    | U    |        |      |        |      |
| 2,4-Dinitrophenol          | 870      | UJ       | 1000     | UJ   | 990    | UJ   |        |      |        |      |
| 4-Nitrophenol              | 870      | U        | 1000     | U    | 990    | U    |        |      |        |      |
| Dibenzofuran               | 350      | U        | 410      | U    | 390    | U    |        |      |        |      |
| 2,4-Dinitrotoluene         | 350      | U        | 410      | U    | 390    | U    |        |      |        |      |
| Diethylphthalate           | 350      | U        | 64       | J    | 46     | J    |        |      |        |      |
| 4-Chlorophenyl-phenylether | 350      | U        | 410      | U    | 390    | U    |        |      |        |      |
| Fluorene                   | 350      | U        | 410      | U    | 390    | U    |        |      |        |      |
| 4-Nitroaniline             | 870      | U        | 1000     | U    | 990    | U    |        |      |        |      |
| 4,6-Dinitro-2-methylphenol | 870      | UJ       | 1000     | UJ   | 990    | UJ   |        |      |        |      |
| N-Nitrosodiphenylamine     | 350      | U        | 410      | U    | 390    | U    |        |      |        |      |
| 4-Bromophenyl-phenylether  | 350      | U        | 410      | U    | 390    | U    |        |      |        |      |
| Hexachlorobenzene          | 350      | U        | 410      | U    | 390    | U    |        |      |        |      |
| Pentachlorophenol          | 870      | UJ       | 1000     | UJ   | 990    | UJ   |        |      |        |      |
| Phenanthrene               | 100      | J        | 270      | J    | 250    | J    |        |      |        |      |
| Anthracene                 | 350      | U        | 53       | J    | 57     | J    |        |      |        |      |
| Carbazole                  | 350      | U        | 410      | U    | 390    | U    |        |      |        |      |
| Di-n-butylphthalate        | 350      | U        | 410      | U    | 390    | U    |        |      |        |      |
| Fluoranthene               | 210      | J        | 710      |      | 660    |      |        |      |        |      |
| Pyrene                     | 190      | J        | 670      |      | 610    |      |        |      |        |      |
| Butylbenzylphthalate       | 350      | UJ       | 60       | J    | 390    | UJ   |        |      |        |      |
| 3,3'-Dichlorobenzidine     | 350      | U        | 410      | U    | 390    | U    |        |      |        |      |
| Benzo(a)anthracene         | 100      | J        | 400      | J    | 350    | J    |        |      |        |      |
| Chrysene                   | 110      | J        | 450      |      | 400    |      |        |      |        |      |
| bis(2-Ethylhexyl)phthalate | 160      | J        | 270      | J    | 120    | J    |        |      |        |      |
| Di-n-octylphthalate        | 350      | UJ       | 410      | UJ   | 390    | UJ   |        |      |        |      |
| Benzo(b)fluoranthene       | 120      | J        | 750      |      | 430    |      |        |      |        |      |
| Benzo(k)fluoranthene       | 120      | J        | 900      |      | 440    |      |        |      |        |      |
| Benzo(a)pyrene             | 120      | J        | 530      |      | 450    |      |        |      |        |      |
| Indeno(1,2,3-cd)pyrene     | 82       | J        | 380      | J    | 360    | J    |        |      |        |      |
| Dibenz(a,h)anthracene      | 43       | J        | 160      | J    | 150    | J    |        |      |        |      |
| Benzo(g,h,i)perylene       | 89       | J        | 280      | J    | 250    | J    |        |      |        |      |

Case #: 26551  
 Site: HIMCO DUMP, ELKHART  
 Lab.: COMPUCHEM  
 Reviewer: S. Tobin  
 Date: 11/09/98

| Sample Number:             | ECMK5    | ECMK6    | ECMK7    |      |        |      |        |      |        |      |
|----------------------------|----------|----------|----------|------|--------|------|--------|------|--------|------|
| Sampling Location:         | SB16-2   | SB16-6   | SB16-60  |      |        |      |        |      |        |      |
| Matrix:                    | Soil     | Soil     | Soil     |      |        |      |        |      |        |      |
| Units:                     | ug/kg    | ug/kg    | ug/kg    |      |        |      |        |      |        |      |
| Date Sampled:              | 10/15/98 | 10/15/98 | 10/15/98 |      |        |      |        |      |        |      |
| %Moisture:                 | 5        | 20       | 16       |      |        |      |        |      |        |      |
| PH:                        | 7.8      | 6.2      | 7.7      |      |        |      |        |      |        |      |
| Dilution Factor:           | 1.0      | 1.0      | 1.0      |      |        |      |        |      |        |      |
| Semivolatile Compound      | Result   | Flag     | Result   | Flag | Result | Flag | Result | Flag | Result | Flag |
| Phenol                     | 350      | U        | 410      | U    | 390    | U    |        |      |        |      |
| bis(2-Chloroethyl) ether   | 350      | U        | 410      | U    | 390    | U    |        |      |        |      |
| 2-Chlorophenol             | 350      | U        | 410      | U    | 390    | U    |        |      |        |      |
| 1,3-Dichlorobenzene        | 350      | U        | 410      | U    | 390    | U    |        |      |        |      |
| 1,4-Dichlorobenzene        | 350      | U        | 98       | J    | 63     | J    |        |      |        |      |
| 1,2-Dichlorobenzene        | 350      | U        | 410      | U    | 390    | U    |        |      |        |      |
| 2-Methylphenol             | 350      | U        | 410      | U    | 390    | U    |        |      |        |      |
| 2,2'-oxybis(1-chloropropan | 350      | U        | 410      | U    | 390    | U    |        |      |        |      |
| 4-Methylphenol             | 350      | U        | 410      | U    | 390    | U    |        |      |        |      |
| N-Nitrosodi-n-propylamine  | 350      | U        | 410      | U    | 390    | U    |        |      |        |      |
| Hexachloroethane           | 350      | U        | 410      | U    | 390    | U    |        |      |        |      |
| Nitrobenzene               | 350      | U        | 410      | U    | 390    | U    |        |      |        |      |
| Isophorone                 | 350      | U        | 410      | U    | 390    | U    |        |      |        |      |
| 2-Nitrophenol              | 350      | U        | 410      | U    | 390    | U    |        |      |        |      |
| 2,4-Dimethylphenol         | 350      | U        | 410      | U    | 390    | U    |        |      |        |      |
| bis(2-Chloroethoxy)methane | 350      | U        | 410      | U    | 390    | U    |        |      |        |      |
| 2,4-Dichlorophenol         | 350      | U        | 410      | U    | 390    | U    |        |      |        |      |
| 1,2,4-Trichlorobenzene     | 350      | U        | 410      | U    | 390    | U    |        |      |        |      |
| Naphthalene                | 350      | U        | 120      | J    | 130    | J    |        |      |        |      |
| 4-Chloroaniline            | 350      | U        | 410      | U    | 390    | U    |        |      |        |      |
| Hexachlorobutadiene        | 350      | UJ       | 410      | UJ   | 390    | UJ   |        |      |        |      |
| 4-Chloro-3-methylphenol    | 350      | U        | 410      | U    | 390    | U    |        |      |        |      |
| 2-Methylnaphthalene        | 350      | U        | 410      | U    | 390    | U    |        |      |        |      |
| Hexachlorocyclopentadiene  | 350      | U        | 410      | U    | 390    | U    |        |      |        |      |
| 2,4,6-Trichlorophenol      | 350      | U        | 410      | U    | 390    | U    |        |      |        |      |
| 2,4,5-Trichlorophenol      | 870      | U        | 1000     | U    | 990    | U    |        |      |        |      |
| 2-Chloronaphthalene        | 350      | U        | 410      | U    | 390    | U    |        |      |        |      |
| 2-Nitroaniline             | 870      | U        | 1000     | U    | 990    | U    |        |      |        |      |
| Dimethylphthalate          | 350      | U        | 410      | U    | 390    | U    |        |      |        |      |
| Acenaphthylene             | 350      | U        | 410      | U    | 390    | U    |        |      |        |      |
| 2,6-Dinitrotoluene         | 350      | U        | 410      | U    | 390    | U    |        |      |        |      |
| 3-Nitroaniline             | 870      | U        | 1000     | U    | 990    | U    |        |      |        |      |

## Analytical Results (Qualified Data)

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Case #: 26551                                   SDG: ECMK2  
 Site:   HIMCO DUMP, ELKHART  
 Lab. :   COMPUCHEM  
 Reviewer:                                   S. Tobin  
 Date:   11/09/98

| Sample Number:             | ECMK1    | ECMK1DL  | ECMK2    | ECMK3    | ECMK4    |      |        |      |        |      |
|----------------------------|----------|----------|----------|----------|----------|------|--------|------|--------|------|
| Sampling Location:         | SB20-6   | SB20-6   | SB03-0.5 | SB03-2   | SB20-0.5 |      |        |      |        |      |
| Matrix:                    | Soil     | Soil     | Soil     | Soil     | Soil     |      |        |      |        |      |
| Units:                     | ug/kg    | ug/kg    | ug/kg    | ug/kg    | ug/kg    |      |        |      |        |      |
| Date Sampled:              | 10/15/98 | 10/15/98 | 10/12/98 | 10/12/98 | 10/15/98 |      |        |      |        |      |
| %Moisture:                 | 7        | 7        | 8        | 9        | 8        |      |        |      |        |      |
| PH:                        | 7.5      | 7.5      | 6.4      | 6.2      | 6.5      |      |        |      |        |      |
| Dilution Factor:           | 1.0      | 15.0     | 1.0      | 1.0      | 1.0      |      |        |      |        |      |
| Semivolatile Compound      | Result   | Flag     | Result   | Flag     | Result   | Flag | Result | Flag | Result | Flag |
| Acenaphthene               | 890      |          | 880      | J        | 360      | U    | 360    | U    | 180    | J    |
| 2,4-Dinitrophenol          | 890      | UJ       | 13000    | UJ       | 900      | U    | 910    | U    | 900    | UJ   |
| 4-Nitrophenol              | 890      | U        | 13000    | U        | 900      | U    | 910    | U    | 900    | U    |
| Dibenzofuran               | 1500     |          | 1500     | J        | 360      | U    | 360    | U    | 360    | U    |
| 2,4-Dinitrotoluene         | 350      | U        | 5300     | U        | 360      | U    | 360    | U    | 360    | U    |
| Diethylphthalate           | 350      | U        | 5300     | U        | 360      | U    | 360    | U    | 360    | U    |
| 4-Chlorophenyl-phenylether | 350      | U        | 5300     | U        | 360      | U    | 360    | U    | 360    | U    |
| Fluorene                   | 2500     |          | 2400     | J        | 360      | U    | 360    | U    | 360    | U    |
| 4-Nitroaniline             | 890      | U        | 13000    | UJ       | 900      | UJ   | 910    | UJ   | 900    | U    |
| 4,6-Dinitro-2-methylphenol | 890      | UJ       | 13000    | U        | 900      | U    | 910    | U    | 900    | UJ   |
| N-Nitrosodiphenylamine     | 350      | U        | 5300     | U        | 360      | U    | 360    | U    | 360    | U    |
| 4-Bromophenyl-phenylether  | 350      | U        | 5300     | U        | 360      | U    | 360    | U    | 360    | U    |
| Hexachlorobenzene          | 350      | U        | 5300     | U        | 360      | UJ   | 360    | UJ   | 360    | U    |
| Pentachlorophenol          | 890      | UJ       | 13000    | UJ       | 900      | U    | 910    | U    | 900    | UJ   |
| Phenanthrene               | 19000    |          | 18000    |          | 360      | U    | 360    | U    | 460    |      |
| Anthracene                 | 3700     |          | 4900     | J        | 360      | U    | 360    | U    | 110    | J    |
| Carbazole                  | 1500     |          | 1700     | J        | 360      | UJ   | 360    | UJ   | 58     | J    |
| Di-n-butylphthalate        | 350      | U        | 5300     | U        | 360      | U    | 360    | U    | 360    | J    |
| Fluoranthene               | 24000    |          | 29000    |          | 360      | U    | 360    | U    | 1200   |      |
| Pyrene                     | 31000    |          | 21000    |          | 360      | U    | 360    | U    | 1200   |      |
| Butylbenzylphthalate       | 350      | UJ       | 5300     | UJ       | 360      | U    | 360    | U    | 360    | UJ   |
| 3,3'-Dichlorobenzidine     | 350      | U        | 5300     | U        | 360      | UJ   | 360    | UJ   | 360    | U    |
| Benzo(a)anthracene         | 9800     |          | 9700     |          | 360      | U    | 360    | U    | 780    |      |
| Chrysene                   | 9300     |          | 9700     |          | 360      | U    | 360    | U    | 880    |      |
| bis(2-Ethylhexyl)phthalate | 81       | J        | 5300     | UJ       | 140      | J    | 360    | UJ   | 90     | J    |
| Di-n-octylphthalate        | 350      | UJ       | 5300     | U        | 360      | U    | 360    | U    | 120    | J    |
| Benzo(b)fluoranthene       | 18000    |          | 9700     |          | 360      | U    | 360    | U    | 1200   |      |
| Benzo(k)fluoranthene       | 21000    |          | 10000    |          | 360      | U    | 360    | U    | 1200   |      |
| Benzo(a)pyrene             | 12000    |          | 11000    |          | 360      | U    | 360    | U    | 1300   |      |
| Indeno(1,2,3-cd)pyrene     | 6400     |          | 7000     |          | 360      | U    | 360    | U    | 1200   |      |
| Dibenz(a,h)anthracene      | 2000     |          | 2600     | J        | 360      | U    | 360    | U    | 450    |      |
| Benzo(g,h,i)perylene       | 5200     |          | 7100     |          | 360      | U    | 360    | U    | 1000   |      |

## Analytical Results (Qualified Data)

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Case #: 26551                   SDG: ECMK2  
 Site:                           HIMCO DUMP, ELKHART  
 Lab.:                           COMPUCHEM  
 Reviewer:                   S. Tobin  
 Date:                          11/09/98

| Sample Number:             | ECMK1    | ECMK1DL  | ECMK2    | ECMK3    | ECMK4    |      |        |      |        |      |
|----------------------------|----------|----------|----------|----------|----------|------|--------|------|--------|------|
| Sampling Location:         | SB20-6   | SB20-6   | SB03-0.5 | SB03-2   | SB20-0.5 |      |        |      |        |      |
| Matrix:                    | Soil     | Soil     | Soil     | Soil     | Soil     |      |        |      |        |      |
| Units:                     | ug/kg    | ug/kg    | ug/kg    | ug/kg    | ug/kg    |      |        |      |        |      |
| Date Sampled:              | 10/15/98 | 10/15/98 | 10/12/98 | 10/12/98 | 10/15/98 |      |        |      |        |      |
| %Moisture:                 | 7        | 7        | 8        | 9        | 8        |      |        |      |        |      |
| PH:                        | 7.5      | 7.5      | 6.4      | 6.2      | 6.5      |      |        |      |        |      |
| Dilution Factor:           | 1.0      | 15.0     | 1.0      | 1.0      | 1.0      |      |        |      |        |      |
| Semivolatiles Compound     | Result   | Flag     | Result   | Flag     | Result   | Flag | Result | Flag | Result | Flag |
| Phenol                     | 350      | U        | 5300     | U        | 360      | U    | 360    | U    | 360    | U    |
| bis(2-Chloroethyl) ether   | 350      | U        | 5300     | U        | 360      | U    | 360    | U    | 360    | U    |
| 2-Chlorophenol             | 350      | U        | 5300     | U        | 360      | U    | 360    | U    | 360    | U    |
| 1,3-Dichlorobenzene        | 350      | U        | 5300     | U        | 360      | U    | 360    | U    | 360    | U    |
| 1,4-Dichlorobenzene        | 350      | U        | 5300     | U        | 360      | U    | 360    | U    | 360    | U    |
| 1,2-Dichlorobenzene        | 350      | U        | 5300     | U        | 360      | U    | 360    | U    | 360    | U    |
| 2-Methylphenol             | 350      | U        | 5300     | U        | 360      | U    | 360    | U    | 360    | U    |
| 2,2'-oxybis(1-chloropropan | 350      | U        | 5300     | U        | 360      | U    | 360    | U    | 360    | U    |
| 4-Methylphenol             | 350      | U        | 5300     | U        | 360      | U    | 360    | U    | 360    | U    |
| N-Nitrosodi-n-propylamine  | 350      | U        | 5300     | U        | 360      | U    | 360    | U    | 360    | U    |
| Hexachloroethane           | 350      | U        | 5300     | U        | 360      | U    | 360    | U    | 360    | U    |
| Nitrobenzene               | 350      | U        | 5300     | U        | 360      | U    | 360    | U    | 360    | U    |
| Isophorone                 | 350      | U        | 5300     | U        | 360      | U    | 360    | U    | 360    | U    |
| 2-Nitrophenol              | 350      | U        | 5300     | U        | 360      | U    | 360    | U    | 360    | U    |
| 2,4-Dimethylphenol         | 350      | U        | 5300     | U        | 360      | U    | 360    | U    | 360    | U    |
| bis(2-Chloroethoxy)methane | 350      | U        | 5300     | U        | 360      | U    | 360    | U    | 360    | U    |
| 2,4-Dichlorophenol         | 350      | U        | 5300     | U        | 360      | U    | 360    | U    | 360    | U    |
| 1,2,4-Trichlorobenzene     | 350      | U        | 5300     | U        | 360      | U    | 360    | U    | 360    | U    |
| Naphthalene                | 2200     |          | 2400     | J        | 360      | U    | 360    | U    | 360    | U    |
| 4-Chloroaniline            | 350      | U        | 5300     | U        | 360      | U    | 360    | U    | 360    | U    |
| Hexachlorobutadiene        | 350      | UJ       | 5300     | UJ       | 360      | U    | 360    | U    | 360    | UJ   |
| 4-Chloro-3-methylphenol    | 350      | U        | 5300     | U        | 360      | U    | 360    | U    | 360    | U    |
| 2-Methylnaphthalene        | 1000     |          | 970      | J        | 360      | U    | 360    | U    | 360    | U    |
| Hexachlorocyclopentadiene  | 350      | U        | 5300     | U        | 360      | U    | 360    | U    | 360    | U    |
| 2,4,6-Trichlorophenol      | 350      | U        | 5300     | U        | 360      | U    | 360    | U    | 360    | U    |
| 2,4,5-Trichlorophenol      | 890      | U        | 13000    | U        | 900      | U    | 910    | U    | 900    | U    |
| 2-Chloronaphthalene        | 350      | U        | 5300     | U        | 360      | U    | 360    | U    | 360    | U    |
| 2-Nitroaniline             | 890      | U        | 13000    | U        | 900      | U    | 910    | U    | 900    | U    |
| Dimethylphthalate          | 350      | U        | 5300     | U        | 360      | U    | 360    | U    | 360    | U    |
| Acenaphthylene             | 2300     |          | 2100     | J        | 360      | U    | 360    | U    | 360    | U    |
| 2,6-Dinitrotoluene         | 350      | U        | 5300     | U        | 360      | U    | 360    | U    | 360    | U    |
| 3-Nitroaniline             | 890      | U        | 13000    | U        | 900      | U    | 910    | U    | 900    | U    |

Analytical Results (Qualified Data)

Case #: 26551                      SDG: ECMK2  
 Site:                                HIMCO DUMP, ELKHART  
 Lab. :                                COMPUCHEM  
 Reviewer:                          S. Tobin  
 Date:                                11/09/98

| Sample Number:             | ECMJ7MSD | ECMJ8    | ECMJ9    | ECMK0    | ECMKODL  |      |        |      |        |      |
|----------------------------|----------|----------|----------|----------|----------|------|--------|------|--------|------|
| Sampling Location:         | SB17-05  | SB17-2   | SB16-05  | SB20-2   | SB20-2   |      |        |      |        |      |
| Matrix:                    | Soil     | Soil     | Soil     | Soil     | Soil     |      |        |      |        |      |
| Units:                     | ug/kg    | ug/kg    | ug/kg    | ug/kg    | ug/kg    |      |        |      |        |      |
| Date Sampled:              | 10/15/98 | 10/15/98 | 10/15/98 | 10/15/98 | 10/15/98 |      |        |      |        |      |
| *Moisture:                 | 8        | 5        | 6        | 8        | 8        |      |        |      |        |      |
| PH:                        | 7        | 7.7      | 7.9      | 7.9      | 7.9      |      |        |      |        |      |
| Dilution Factor:           | 1.0      | 1.0      | 1.0      | 1.0      | 2.0      |      |        |      |        |      |
| Semivolatile Compound      | Result   | Flag     | Result   | Flag     | Result   | Flag | Result | Flag | Result | Flag |
| Acenaphthene               | 570      |          | 350      | U        | 350      | U    | 220    | J    | 160    | J    |
| 2,4-Dinitrophenol          | 900      | UJ       | 870      | UJ       | 880      | UJ   | 900    | UJ   | 1800   | UJ   |
| 4-Nitrophenol              | 920      |          | 870      | U        | 880      | U    | 900    | U    | 1800   | U    |
| Dibenzofuran               | 360      | U        | 350      | U        | 350      | U    | 170    | J    | 110    | J    |
| 2,4-Dinitrotoluene         | 600      |          | 350      | U        | 350      | U    | 360    | U    | 720    | U    |
| Diethylphthalate           | 360      | U        | 350      | U        | 350      | U    | 360    | U    | 720    | U    |
| 4-Chlorophenyl-phenylether | 360      | U        | 350      | U        | 350      | U    | 360    | U    | 720    | U    |
| Fluorene                   | 360      | U        | 350      | U        | 350      | U    | 250    | J    | 180    |      |
| 4-Nitroaniline             | 900      | U        | 870      | U        | 880      | U    | 900    | UJ   | 1800   | UJ   |
| 4,6-Dinitro-2-methylphenol | 900      | UJ       | 870      | UJ       | 880      | UJ   | 900    | U    | 1800   | U    |
| N-Nitrosodiphenylamine     | 360      | U        | 350      | U        | 350      | U    | 360    | U    | 720    | U    |
| 4-Bromophenyl-phenylether  | 360      | U        | 350      | U        | 350      | U    | 360    | U    | 720    | U    |
| Hexachlorobenzene          | 360      | U        | 350      | U        | 350      | U    | 360    | U    | 720    | U    |
| Pentachlorophenol          | 510      | J        | 870      | UJ       | 880      | UJ   | 900    | UJ   | 1800   | UJ   |
| Phenanthrene               | 130      | J        | 83       | J        | 37       | J    | 1900   |      | 1400   |      |
| Anthracene                 | 360      | U        | 350      | U        | 350      | U    | 450    |      | 350    | J    |
| Carbazole                  | 360      | U        | 350      | U        | 350      | U    | 280    | J    | 200    | J    |
| Di-n-butylphthalate        | 360      | U        | 350      | U        | 350      | U    | 360    | U    | 720    | U    |
| Fluoranthene               | 320      | J        | 150      | J        | 91       | J    | 3100   |      | 2100   |      |
| Pyrene                     | 990      |          | 120      | J        | 76       | J    | 2500   |      | 1700   |      |
| Butylbenzylphthalate       | 360      | UJ       | 350      | UJ       | 350      | UJ   | 360    | UJ   | 720    | UJ   |
| 3,3'-Dichlorobenzidine     | 360      | U        | 350      | U        | 350      | U    | 360    | U    | 720    | U    |
| Benzo(a)anthracene         | 180      | J        | 66       | J        | 39       | J    | 1700   |      | 1100   |      |
| Chrysene                   | 220      | J        | 76       | J        | 47       | J    | 1400   |      | 1100   |      |
| bis(2-Ethylhexyl)phthalate | 62       | J        | 36       | J        | 410      | J    | 62     | J    | 720    | UJ   |
| Di-n-octylphthalate        | 360      | UJ       | 350      | UJ       | 350      | UJ   | 360    | U    | 720    | U    |
| Benzo(b)fluoranthene       | 200      | J        | 55       | J        | 44       | J    | 2800   |      | 1400   |      |
| Benzo(k)fluoranthene       | 250      | J        | 77       | J        | 50       | J    | 3200   |      | 1200   |      |
| Benzo(a)pyrene             | 250      | J        | 62       | J        | 53       | J    | 1700   |      | 1400   |      |
| Indeno(1,2,3-cd)pyrene     | 220      | J        | 58       | J        | 41       | J    | 1200   |      | 960    |      |
| Dibenz(a,h)anthracene      | 99       | J        | 350      | U        | 350      | U    | 450    |      | 400    | J    |
| Benzo(g,h,i)perylene       | 170      | J        | 47       | J        | 39       | J    | 1100   |      | 900    |      |

## Analytical Results (Qualified Data)

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Case #: 26551                      SDG: ECMK2  
 Site:                                HIMCO DUMP, ELKHART  
 Lab.:                                COMPUCHEM  
 Reviewer:                         S. Tobin  
 Date:                                11/09/98

| Sample Number:             | ECMJ7MSD | ECMJ8    | ECMJ9    | ECMK0    | ECMKDL   |      |        |      |        |      |
|----------------------------|----------|----------|----------|----------|----------|------|--------|------|--------|------|
| Sampling Location:         | SB17-05  | SB17-2   | SB16-05  | SB20-2   | SB20-2   |      |        |      |        |      |
| Matrix:                    | Soil     | Soil     | Soil     | Soil     | Soil     |      |        |      |        |      |
| Units:                     | ug/kg    | ug/kg    | ug/kg    | ug/kg    | ug/kg    |      |        |      |        |      |
| Date Sampled:              | 10/15/98 | 10/15/98 | 10/15/98 | 10/15/98 | 10/15/98 |      |        |      |        |      |
| %Moisture:                 | 8        | 5        | 6        | 8        | 8        |      |        |      |        |      |
| PH:                        | 7        | 7.7      | 7.9      | 7.9      | 7.9      |      |        |      |        |      |
| Dilution Factor:           | 1.0      | 1.0      | 1.0      | 1.0      | 2.0      |      |        |      |        |      |
| Semivolatile Compound      | Result   | Flag     | Result   | Flag     | Result   | Flag | Result | Flag | Result | Flag |
| Phenol                     | 360      |          | 350      | U        | 350      | U    | 360    | U    | 720    | U    |
| bis(2-Chloroethyl)ether    | 360      | U        | 350      | U        | 350      | U    | 360    | U    | 720    | U    |
| 2-Chlorophenol             | 880      |          | 350      | U        | 350      | U    | 360    | U    | 720    | U    |
| 1,3-Dichlorobenzene        | 360      | U        | 350      | U        | 350      | U    | 360    | U    | 720    | U    |
| 1,4-Dichlorobenzene        | 540      |          | 350      | U        | 350      | U    | 360    | U    | 720    | U    |
| 1,2-Dichlorobenzene        | 360      | U        | 350      | U        | 350      | U    | 360    | U    | 720    | U    |
| 2-Methylphenol             | 360      | U        | 350      | U        | 350      | U    | 360    | U    | 720    | U    |
| 2,2'-oxybis(1-chloropropan | 360      | U        | 350      | U        | 350      | U    | 360    | U    | 720    | U    |
| 4-Methylphenol             | 360      | U        | 350      | U        | 350      | U    | 50     | J    | 720    | U    |
| N-Nitroso-di-n-propylamine | 590      |          | 350      | U        | 350      | U    | 360    | U    | 720    | U    |
| Hexachloroethane           | 360      | U        | 350      | U        | 350      | U    | 360    | U    | 720    | U    |
| Nitrobenzene               | 360      | U        | 350      | U        | 350      | U    | 360    | U    | 720    | U    |
| Isophorone                 | 360      | U        | 350      | U        | 350      | U    | 360    | U    | 720    | U    |
| 2-Nitrophenol              | 360      | U        | 350      | U        | 350      | U    | 360    | U    | 720    | U    |
| 2,4-Dimethylphenol         | 360      | U        | 350      | U        | 350      | U    | 360    | U    | 720    | U    |
| bis(2-Chloroethoxy)methane | 360      | U        | 350      | U        | 350      | U    | 360    | U    | 720    | U    |
| 2,4-Dichlorophenol         | 360      | U        | 350      | U        | 350      | U    | 360    | U    | 720    | U    |
| 1,2,4-Trichlorobenzene     | 560      |          | 350      | U        | 350      | U    | 360    | U    | 720    | U    |
| Naphthalene                | 36       | J        | 350      | U        | 350      | U    | 290    | J    | 230    | J    |
| 4-Chloroaniline            | 360      | U        | 350      | U        | 350      | U    | 360    | U    | 720    | U    |
| Hexachlorobutadiene        | 360      | UJ       | 350      | UJ       | 350      | UJ   | 360    | UJ   | 720    | UJ   |
| 4-Chloro-3-methylphenol    | 890      |          | 350      | U        | 350      | U    | 360    | U    | 720    | U    |
| 2-Methylnaphthalene        | 360      | U        | 350      | U        | 350      | U    | 160    | J    | 120    | J    |
| Hexachlorocyclopentadiene  | 360      | U        | 350      | U        | 350      | U    | 360    | U    | 720    | U    |
| 2,4,6-Trichlorophenol      | 360      | U        | 350      | U        | 350      | U    | 360    | U    | 720    | U    |
| 2,4,5-Trichlorophenol      | 900      | U        | 870      | U        | 880      | U    | 900    | U    | 1800   | U    |
| 2-Chloronaphthalene        | 360      | U        | 350      | U        | 350      | U    | 360    | U    | 720    | U    |
| 2-Nitroaniline             | 900      | U        | 870      | U        | 880      | U    | 900    | U    | 1800   | U    |
| Dimethylphthalate          | 360      | U        | 350      | U        | 350      | U    | 360    | U    | 720    | U    |
| Acenaphthylene             | 360      | U        | 350      | U        | 350      | U    | 140    | J    | 100    | J    |
| 2,6-Dinitrotoluene         | 360      | U        | 350      | U        | 350      | U    | 360    | U    | 720    | U    |
| 3-Nitroaniline             | 900      | U        | 870      | U        | 880      | U    | 900    | U    | 1800   | U    |

Analytical Results (Qualified Data)

Case #: 26551  
 Site: HIMCO DUMP, ELKHART  
 Lab.: COMPUCHEM  
 Reviewer: S. Tobin  
 Date: 11/09/98

| Sample Number:             | ECMJ4    | ECMJ5    | ECMJ6    | ECMJ7    | ECMJ7MS  |      |        |      |        |      |
|----------------------------|----------|----------|----------|----------|----------|------|--------|------|--------|------|
| Sampling Location:         | SB19-0.5 | SB19-2   | SB19-6   | SB17-05  | SB17-05  |      |        |      |        |      |
| Matrix:                    | Soil     | Soil     | Soil     | Soil     | Soil     |      |        |      |        |      |
| Units:                     | ug/kg    | ug/kg    | ug/kg    | ug/kg    | ug/kg    |      |        |      |        |      |
| Date Sampled:              | 10/15/98 | 10/15/98 | 10/15/98 | 10/15/98 | 10/15/98 |      |        |      |        |      |
| %Moisture:                 | 10       | 10       | 33       | 8        | 8        |      |        |      |        |      |
| PH:                        | 6.8      | 6.3      | 9.1      | 7        | 7        |      |        |      |        |      |
| Dilution Factor:           | 1.0      | 1.0      | 1.0      | 1.0      | 1.0      |      |        |      |        |      |
| Semivolatiles Compound     | Result   | Flag     | Result   | Flag     | Result   | Flag | Result | Flag | Result | Flag |
| Acenaphthene               | 360      | U        | 370      | U        | 490      | U    | 360    | UJ   | 720    |      |
| 2,4-Dinitrophenol          | 920      | UJ       | 920      | UJ       | 1200     | UJ   | 900    | UJ   | 900    | UJ   |
| 4-Nitrophenol              | 920      | U        | 920      | U        | 1200     | U    | 900    | U    | 1200   |      |
| Dibenzofuran               | 360      | U        | 370      | U        | 490      | U    | 360    | U    | 360    | U    |
| 2,4-Dinitrotoluene         | 360      | U        | 370      | U        | 490      | U    | 360    | U    | 810    |      |
| Diethylphthalate           | 360      | U        | 370      | U        | 490      | U    | 360    | U    | 360    | U    |
| 4-Chlorophenyl-phenylether | 360      | U        | 370      | U        | 490      | U    | 360    | U    | 360    |      |
| Fluorene                   | 360      | U        | 71       | J        | 490      | U    | 360    | U    | 360    |      |
| 4-Nitroaniline             | 920      | U        | 920      | U        | 1200     | U    | 900    | U    | 900    | U    |
| 4,6-Dinitro-2-methylphenol | 920      | UJ       | 920      | UJ       | 1200     | UJ   | 900    | UJ   | 900    | UJ   |
| N-Nitrosodiphenylamine     | 360      | U        | 370      | U        | 490      | U    | 360    | U    | 360    | U    |
| 4-Bromophenyl-phenylether  | 360      | U        | 370      | U        | 490      | U    | 360    | U    | 360    | U    |
| Hexachlorobenzene          | 360      | U        | 370      | U        | 490      | U    | 360    | U    | 360    | U    |
| Pentachlorophenol          | 920      | UJ       | 920      | UJ       | 1200     | UJ   | 900    | UJ   | 640    | J    |
| Phenanthrene               | 160      | J        | 450      |          | 190      | J    | 380    |      | 170    | J    |
| Anthracene                 | 76       | J        | 170      | J        | 490      | U    | 59     | J    | 360    | U    |
| Carbazole                  | 360      | U        | 49       | J        | 490      | U    | 64     | J    | 360    |      |
| Di-n-butylphthalate        | 95       | J        | 37       | J        | 490      | U    | 360    | U    | 360    |      |
| Fluoranthene               | 490      |          | 1700     |          | 490      |      | 760    |      | 390    |      |
| Pyrene                     | 530      |          | 1900     |          | 420      | J    | 510    | J    | 1300   |      |
| Butylbenzylphthalate       | 360      | UJ       | 370      | UJ       | 490      | UJ   | 360    | UJ   | 360    | UJ   |
| 3,3'-Dichlorobenzidine     | 360      | U        | 370      | U        | 490      | U    | 360    | U    | 360    | U    |
| Benzo(a)anthracene         | 310      | J        | 1100     |          | 330      | J    | 260    | J    | 240    | J    |
| Chrysene                   | 300      | J        | 970      |          | 380      | J    | 330    | J    | 240    | J    |
| bis(2-Ethylhexyl)phthalate | 73       | J        | 160      | J        | 170      | J    | 51     | J    | 140    | J    |
| Di-n-octylphthalate        | 360      | UJ       | 370      | UJ       | 130      | J    | 360    | UJ   | 360    | UJ   |
| Benzo(b)fluoranthene       | 380      |          | 1700     |          | 690      |      | 280    | J    | 400    |      |
| Benzo(k)fluoranthene       | 360      |          | 2100     |          | 830      |      | 340    | J    | 480    |      |
| Benzo(a)pyrene             | 430      |          | 1400     |          | 480      | J    | 280    | J    | 290    | J    |
| Indeno(1,2,3-cd)pyrene     | 370      |          | 1100     |          | 410      | J    | 270    | J    | 240    | J    |
| Dibenz(a,h)anthracene      | 130      | J        | 360      | J        | 140      | J    | 120    | J    | 110    | J    |
| Benzo(g,h,i)perylene       | 340      | J        | 940      |          | 400      | J    | 220    | J    | 180    | J    |

Case #: 26551                      SDG: ECMK2  
 Site:                                HIMCO DUMP, ELKHART  
 Lab. :                                COMPUCHEM  
 Reviewer:                         S. Tobin  
 Date:                                11/09/98

| Sample Number:             | ECMJ4    | ECMJ5    | ECMJ6    | ECMJ7    | ECMJ7MS  |      |        |      |        |      |
|----------------------------|----------|----------|----------|----------|----------|------|--------|------|--------|------|
| Sampling Location:         | SB19-0.5 | SB19-2   | SB19-6   | SB17-05  | SB17-05  |      |        |      |        |      |
| Matrix:                    | Soil     | Soil     | Soil     | Soil     | Soil     |      |        |      |        |      |
| Units:                     | ug/kg    | ug/kg    | ug/kg    | ug/kg    | ug/kg    |      |        |      |        |      |
| Date Sampled:              | 10/15/98 | 10/15/98 | 10/15/98 | 10/15/98 | 10/15/98 |      |        |      |        |      |
| %Moisture:                 | 10       | 10       | 33       | 8        | 8        |      |        |      |        |      |
| PH:                        | 6.8      | 6.3      | 9.1      | 7        | 7        |      |        |      |        |      |
| Dilution Factor:           | 1.0      | 1.0      | 1.0      | 1.0      | 1.0      |      |        |      |        |      |
| Semivolatiles Compound     | Result   | Flag     | Result   | Flag     | Result   | Flag | Result | Flag | Result | Flag |
| Phenol                     | 360      | U        | 370      | U        | 490      | U    | 360    | U    | 1200   |      |
| bis(2-Chloroethyl) ether   | 360      | U        | 370      | U        | 490      | U    | 360    | U    | 360    | U    |
| 2-Chlorophenol             | 360      | U        | 370      | U        | 490      | U    | 360    | U    | 1100   |      |
| 1,3-Dichlorobenzene        | 360      | U        | 370      | U        | 490      | U    | 360    | U    | 360    | U    |
| 1,4-Dichlorobenzene        | 360      | U        | 370      | U        | 490      | U    | 360    | U    | 690    |      |
| 1,2-Dichlorobenzene        | 360      | U        | 370      | U        | 490      | U    | 360    | U    | 360    | U    |
| 2-Methylphenol             | 360      | U        | 370      | U        | 490      | U    | 360    | U    | 360    | U    |
| 2,2'-oxybis(1-chloropropan | 360      | U        | 370      | U        | 490      | U    | 360    | U    | 360    | U    |
| 4-Methylphenol             | 360      | U        | 370      | U        | 490      | U    | 360    | U    | 360    | U    |
| N-Nitroso-di-n-propylamine | 360      | U        | 370      | U        | 490      | U    | 360    | UJ   | 800    |      |
| Hexachloroethane           | 360      | U        | 370      | U        | 490      | U    | 360    | U    | 360    | U    |
| Nitrobenzene               | 360      | U        | 370      | U        | 490      | U    | 360    | U    | 360    | U    |
| Isophorone                 | 360      | U        | 370      | U        | 490      | U    | 360    | U    | 360    | U    |
| 2-Nitrophenol              | 360      | U        | 370      | U        | 490      | U    | 360    | U    | 360    | U    |
| 2,4-Dimethylphenol         | 360      | U        | 370      | U        | 490      | U    | 360    | U    | 360    | U    |
| bis(2-Chloroethoxy)methane | 360      | U        | 370      | U        | 490      | U    | 360    | U    | 360    | U    |
| 2,4-Dichlorophenol         | 360      | U        | 370      | U        | 490      | U    | 360    | U    | 360    | U    |
| 1,2,4-Trichlorobenzene     | 360      | U        | 370      | U        | 490      | U    | 360    | UJ   | 750    |      |
| Naphthalene                | 360      | U        | 370      | U        | 490      | U    | 360    | U    | 69     | J    |
| 4-Chloroaniline            | 360      | U        | 370      | U        | 490      | U    | 360    | U    | 360    | U    |
| Hexachlorobutadiene        | 360      | UJ       | 370      | UJ       | 490      | UJ   | 360    | UJ   | 360    | UJ   |
| 4-Chloro-3-methylphenol    | 360      | U        | 370      | U        | 490      | U    | 360    | UJ   | 1300   |      |
| 2-Methylnaphthalene        | 360      | U        | 370      | U        | 490      | U    | 360    | U    | 360    | U    |
| Hexachlorocyclopentadiene  | 360      | U        | 370      | U        | 490      | U    | 360    | U    | 360    | U    |
| 2,4,6-Trichlorophenol      | 360      | U        | 370      | U        | 490      | U    | 360    | U    | 360    | U    |
| 2,4,5-Trichlorophenol      | 920      | U        | 920      | U        | 1200     | U    | 900    | U    | 900    | U    |
| 2-Chloronaphthalene        | 360      | U        | 370      | U        | 490      | U    | 360    | U    | 360    | U    |
| 2-Nitroaniline             | 920      | U        | 920      | U        | 1200     | U    | 900    | U    | 900    | U    |
| Dimethylphthalate          | 360      | U        | 370      | U        | 490      | U    | 360    | U    | 360    | U    |
| Acenaphthylene             | 96       | J        | 290      | J        | 490      | U    | 360    | U    | 360    | U    |
| 2,6-Dinitrotoluene         | 360      | U        | 370      | U        | 490      | U    | 360    | U    | 360    | U    |
| 3-Nitroaniline             | 920      | U        | 920      | U        | 1200     | U    | 900    | U    | 900    | U    |

Analytical Results (Qualified Data)

Case #: 26551                      SDG: ECMK2  
 Site:                               HIMCO DUMP, ELKHART  
 Lab. :                               COMPUCHEM  
 Reviewer:                          S. Tobin  
 Date:                                11/09/98

|                           |               |             |               |             |               |             |               |             |               |
|---------------------------|---------------|-------------|---------------|-------------|---------------|-------------|---------------|-------------|---------------|
| Sample Number:            | ECMK7         |             |               |             |               |             |               |             |               |
| Sampling Location:        | SB16-60       |             |               |             |               |             |               |             |               |
| Matrix:                   | Soil          |             |               |             |               |             |               |             |               |
| Units:                    | ug/kg         |             |               |             |               |             |               |             |               |
| Date Sampled:             | 10/15/98      |             |               |             |               |             |               |             |               |
| %Moisture:                | 16            |             |               |             |               |             |               |             |               |
| PH:                       |               |             |               |             |               |             |               |             |               |
| Dilution Factor:          | 1.0           |             |               |             |               |             |               |             |               |
| <b>Volatile Compound</b>  | <b>Result</b> | <b>Flag</b> | <b>Result</b> | <b>Flag</b> | <b>Result</b> | <b>Flag</b> | <b>Result</b> | <b>Flag</b> | <b>Result</b> |
| Chloromethane             | 12            | U           |               |             |               |             |               |             |               |
| Bromomethane              | 12            | U           |               |             |               |             |               |             |               |
| Vinyl Chloride            | 12            | U           |               |             |               |             |               |             |               |
| Chloroethane              | 12            | U           |               |             |               |             |               |             |               |
| Methylene Chloride        | 25            | U           |               |             |               |             |               |             |               |
| Acetone                   | 14            | U           |               |             |               |             |               |             |               |
| Carbon Disulfide          | 2             | J           |               |             |               |             |               |             |               |
| 1,1-Dichloroethene        | 12            | U           |               |             |               |             |               |             |               |
| 1,1-Dichloroethane        | 2             | J           |               |             |               |             |               |             |               |
| Total 1,2-Dichloroethene  | 12            | U           |               |             |               |             |               |             |               |
| Chloroform                | 12            | U           |               |             |               |             |               |             |               |
| 1,2-Dichloroethane        | 12            | U           |               |             |               |             |               |             |               |
| 2-Butanone                | 12            | U           |               |             |               |             |               |             |               |
| 1,1,1-Trichloroethane     | 12            | U           |               |             |               |             |               |             |               |
| Carbon Tetrachloride      | 12            | U           |               |             |               |             |               |             |               |
| Bromodichloromethane      | 12            | U           |               |             |               |             |               |             |               |
| 1,2-Dichloropropane       | 12            | U           |               |             |               |             |               |             |               |
| Cis-1,3-Dichloropropene   | 12            | U           |               |             |               |             |               |             |               |
| Trichloroethene           | 12            | U           |               |             |               |             |               |             |               |
| Dibromochloromethane      | 12            | U           |               |             |               |             |               |             |               |
| 1,1,2-Trichloroethane     | 12            | U           |               |             |               |             |               |             |               |
| Benzene                   | 4             | J           |               |             |               |             |               |             |               |
| Trans-1,3-Dichloropropene | 12            | U           |               |             |               |             |               |             |               |
| Bromoform                 | 12            | U           |               |             |               |             |               |             |               |
| 4-Methyl-2-pentanone      | 12            | U           |               |             |               |             |               |             |               |
| 2-Hexanone                | 12            | U           |               |             |               |             |               |             |               |
| Tetrachloroethene         | 12            | U           |               |             |               |             |               |             |               |
| 1,1,2,2-Tetrachloroethane | 12            | U           |               |             |               |             |               |             |               |
| Toluene                   | 12            | U           |               |             |               |             |               |             |               |
| Chlorobenzene             | 12            | U           |               |             |               |             |               |             |               |
| Ethylbenzene              | 14            |             |               |             |               |             |               |             |               |
| Styrene                   | 12            | U           |               |             |               |             |               |             |               |
| Xylene (total)            | 9             | J           |               |             |               |             |               |             |               |

## Analytical Results (Qualified Data)

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Case #: 26551                      SDG: ECMK2  
 Site:                                HIMCO DUMP, ELKHART  
 Lab. :                                COMPUCHEM  
 Reviewer:                         S. Tobin  
 Date:                                11/09/98

| Sample Number:            | ECMK2    |      | ECMK3    |      | ECMK4    |      | ECMK5    |      | ECMK6    |      |
|---------------------------|----------|------|----------|------|----------|------|----------|------|----------|------|
| Sampling Location:        | SB03-0.5 |      | SB03-2   |      | SB20-0.5 |      | SB16-2   |      | SB16-6   |      |
| Matrix:                   | Soil |  | Soil |  | Soil |  | Soil |  | Soil |
| Units: | ug/kg |  | ug/kg |  | ug/kg |  | ug/kg |  | ug/kg    |      |
| Date Sampled:             | 10/12/98 |      | 10/12/98 |      | 10/15/98 |      | 10/15/98 |      | 10/15/98 |      |
| %Moisture:                | 8        |      | 9        |      | 8        |      | 5        |      | 20       |      |
| PH:                       |          |      |          |      |          |      |          |      |          |      |
| Dilution Factor:          | 1.0      |      | 1.0      |      | 1.0      |      | 1.0      |      | 1.0      |      |
| Volatile Compound         | Result   | Flag | Result | Flag | Result | Flag | Result | Flag | Result | Flag |
| Chloromethane             | 11       | UJ   | 11       | UJ   | 11       | U    | 10       | U    | 12       | U    |
| Bromomethane              | 11       | U    | 11       | U    | 11       | U    | 10       | U    | 12       | U    |
| Vinyl Chloride            | 11       | UJ   | 11       | UJ   | 11       | U    | 10       | U    | 12       | U    |
| Chloroethane              | 11       | U    | 11       | U    | 11       | U    | 10       | U    | 12       | U    |
| Methylene Chloride        | 34       |      | 18       | U    | 13       | U    | 24       | U    | 13       | U    |
| Acetone                   | 2        | J    | 2        | J    | 11       | UJ   | 10       | UJ   | 12       | UJ   |
| Carbon Disulfide          | 11       | U    | 11       | U    | 11       | U    | 10       | U    | 12       | U    |
| 1,1-Dichloroethene        | 11       | U    | 11       | U    | 11       | U    | 10       | U    | 12       | U    |
| 1,1-Dichloroethane        | 11       | U    | 11       | U    | 11       | U    | 10       | U    | 1        | J    |
| Total 1,2-Dichloroethene  | 11       | U    | 11       | U    | 11       | U    | 10       | U    | 12       | U    |
| Chloroform                | 11       | U    | 11       | U    | 11       | U    | 10       | U    | 12       | U    |
| 1,2-Dichloroethane        | 11       | U    | 11       | U    | 11       | U    | 10       | U    | 12       | U    |
| 2-Butanone                | 11       | UJ   | 11       | UJ   | 11       | U    | 10       | U    | 12       | U    |
| 1,1,1-Trichloroethane     | 11       | U    | 11       | U    | 11       | U    | 10       | U    | 12       | U    |
| Carbon Tetrachloride      | 11       | U    | 11       | U    | 11       | U    | 10       | U    | 12       | U    |
| Bromodichloromethane      | 11       | U    | 11       | U    | 11       | U    | 10       | U    | 12       | U    |
| 1,2-Dichloropropane       | 11       | U    | 11       | U    | 11       | U    | 10       | U    | 12       | U    |
| Cis-1,3-Dichloropropene   | 11       | U    | 11       | U    | 11       | U    | 10       | U    | 12       | U    |
| Trichloroethene           | 11       | U    | 11       | U    | 11       | U    | 10       | U    | 12       | U    |
| Dibromochloromethane      | 11       | U    | 11       | U    | 11       | U    | 10       | U    | 12       | U    |
| 1,1,2-Trichloroethane     | 11       | U    | 11       | U    | 11       | U    | 10       | U    | 12       | U    |
| Benzene                   | 11       | U    | 11       | U    | 11       | U    | 10       | U    | 3        | J    |
| Trans-1,3-Dichloropropene | 11       | U    | 11       | U    | 11       | U    | 10       | U    | 12       | U    |
| Bromoform                 | 11       | U    | 11       | U    | 11       | U    | 10       | U    | 12       | U    |
| 4-Methyl-2-pentanone      | 11       | UJ   | 11       | UJ   | 11       | U    | 10       | U    | 12       | U    |
| 2-Hexanone                | 11       | UJ   | 11       | UJ   | 11       | U    | 10       | U    | 12       | U    |
| Tetrachloroethene         | 11       | U    | 11       | U    | 11       | U    | 10       | U    | 12       | U    |
| 1,1,2,2-Tetrachloroethane | 11       | U    | 11       | U    | 11       | U    | 10       | U    | 12       | U    |
| Toluene                   | 11       | U    | 11       | U    | 11       | U    | 10       | U    | 12       | U    |
| Chlorobenzene             | 11       | U    | 11       | U    | 11       | U    | 10       | U    | 12       | U    |
| Ethylbenzene              | 11       | U    | 11       | U    | 11       | U    | 10       | U    | 12       | U    |
| Styrene                   | 11       | U    | 11       | U    | 11       | U    | 10       | U    | 12       | U    |
| Xylene (total)            | 11       | U    | 11       | U    | 11       | U    | 10       | U    | 7        | J    |

Case #: 26551  
 Site: SDG: ECMK2  
 Lab.: HIMCO DUMP, ELKHART  
 Reviewer: COMPUCHEM  
 Date: S. Tobin  
 11/09/98

| Sample Number:            | ECMJ9    | ECMJ9MS  | ECMJ9MSD | ECMK0    | ECMK1    |      |        |      |        |      |
|---------------------------|----------|----------|----------|----------|----------|------|--------|------|--------|------|
| Sampling Location:        | SB16-05  | SB16-05  | SB16-05  | SB20-2   | SB20-6   |      |        |      |        |      |
| Matrix:                   | Soil     | Soil     | Soil     | Soil     | Soil     |      |        |      |        |      |
| Units:                    | ug/kg    | ug/kg    | ug/kg    | ug/kg    | ug/kg    |      |        |      |        |      |
| Date Sampled:             | 10/15/98 | 10/15/98 | 10/15/98 | 10/15/98 | 10/15/98 |      |        |      |        |      |
| %Moisture:                | 6        | 6        | 6        | 8        | 7        |      |        |      |        |      |
| PH:                       |          |          |          |          |          |      |        |      |        |      |
| Dilution Factor:          | 1.0      | 1.0      | 1.0      | 1.0      | 1.0      |      |        |      |        |      |
| Volatile Compound         | Result   | Flag     | Result   | Flag     | Result   | Flag | Result | Flag | Result | Flag |
| Chloromethane             | 11       | UJ       | 11       | U        | 11       | U    | 11     | UJ   | 11     |      |
| Bromomethane              | 11       | U        | 11       | U        | 11       | U    | 11     | U    | 11     | U    |
| Vinyl Chloride            | 11       | UJ       | 11       | U        | 11       | U    | 11     | UJ   | 11     | UJ   |
| Chloroethane              | 11       | U        | 11       | U        | 11       | U    | 11     | U    | 11     | U    |
| Methylene Chloride        | 18       | U        | 11       | U        | 12       | U    | 17     | U    | 17     | U    |
| Acetone                   | 2        | J        | 11       | UJ       | 11       | UJ   | 2      | J    | 2      | J    |
| Carbon Disulfide          | 11       | U        | 11       | U        | 11       | U    | 11     | U    | 11     | U    |
| 1,1-Dichloroethene        | 11       | U        | 45       |          | 46       |      | 11     | U    | 11     |      |
| 1,1-Dichloroethane        | 11       | U        | 11       | U        | 11       | U    | 11     | U    | 11     |      |
| Total 1,2-Dichloroethene  | 11       | U        | 11       | U        | 11       | U    | 11     | U    | 11     | U    |
| Chloroform                | 11       | U        | 11       | U        | 11       | U    | 11     | U    | 11     | U    |
| 1,2-Dichloroethane        | 11       | U        | 11       | U        | 11       | U    | 11     | U    | 11     | U    |
| 2-Butanone                | 11       | UJ       | 11       | U        | 11       | U    | 11     | UJ   | 11     | UJ   |
| 1,1,1-Trichloroethane     | 11       | U        | 11       | U        | 11       | U    | 11     | U    | 11     | U    |
| Carbon Tetrachloride      | 11       | U        | 11       | U        | 11       | U    | 11     | U    | 11     | U    |
| Bromodichloromethane      | 11       | U        | 11       | U        | 11       | U    | 11     | U    | 11     | U    |
| 1,2-Dichloropropane       | 11       | U        | 11       | U        | 11       | U    | 11     | U    | 11     | U    |
| Cis-1,3-Dichloropropene   | 11       | U        | 11       | U        | 11       | U    | 11     | U    | 11     | U    |
| Trichloroethene           | 11       | U        | 43       |          | 44       |      | 11     | U    | 11     | U    |
| Dibromochloromethane      | 11       | U        | 11       | U        | 11       | U    | 11     | U    | 11     | U    |
| 1,1,2-Trichloroethane     | 11       | U        | 11       | U        | 11       | U    | 11     | U    | 11     | U    |
| Benzene                   | 11       | U        | 47       |          | 49       |      | 11     | U    | 11     | U    |
| Trans-1,3-Dichloropropene | 11       | U        | 11       | U        | 11       | U    | 11     | U    | 11     | U    |
| Bromoform                 | 11       | U        | 11       | U        | 11       | U    | 11     | U    | 11     | U    |
| 4-Methyl-2-pentanone      | 11       | UJ       | 11       | U        | 11       | U    | 11     | UJ   | 11     | UJ   |
| 2-Hexanone                | 11       | UJ       | 11       | U        | 11       | U    | 11     | UJ   | 11     | UJ   |
| Tetrachloroethene         | 11       | U        | 11       | U        | 11       | U    | 11     | U    | 11     | U    |
| 1,1,2,2-Tetrachloroethane | 11       | U        | 11       | U        | 11       | U    | 11     | U    | 11     | U    |
| Toluene                   | 11       | U        | 45       |          | 46       |      | 11     | U    | 11     | U    |
| Chlorobenzene             | 11       | U        | 46       |          | 48       |      | 11     | U    | 11     | U    |
| Ethylbenzene              | 11       | U        | 11       | U        | 11       | U    | 11     | U    | 11     | U    |
| Styrene                   | 11       | U        | 11       | U        | 11       | U    | 11     | U    | 11     | U    |
| Xylene (total)            | 11       | U        | 11       | U        | 11       | U    | 11     | U    | 11     | U    |

Case #: 26551  
 Site: HIMCO DUMP, ELKHART  
 Lab.: COMPUCHEM  
 Reviewer: S. Tobin  
 Date: 11/09/98

| Sample Number:            | ECMJ4    | ECMJ5    | ECMJ6    | ECMJ7    | ECMJ8    |      |        |      |        |      |
|---------------------------|----------|----------|----------|----------|----------|------|--------|------|--------|------|
| Sampling Location:        | SB19-0.5 | SB19-2   | SB19-6   | SB17-05  | SB17-2   |      |        |      |        |      |
| Matrix:                   | Soil     | Soil     | Soil     | Soil     | Soil     |      |        |      |        |      |
| Units:                    | ug/kg    | ug/kg    | ug/kg    | ug/kg    | ug/kg    |      |        |      |        |      |
| Date Sampled:             | 10/15/98 | 10/15/98 | 10/15/98 | 10/15/98 | 10/15/98 |      |        |      |        |      |
| %Moisture:                | 10       | 10       | 33       | 8        | 5        |      |        |      |        |      |
| PH:                       |          |          |          |          |          |      |        |      |        |      |
| Dilution Factor:          | 1.0      | 1.0      | 1.0      | 1.0      | 1.0      |      |        |      |        |      |
| Volatile Compound         | Result   | Flag     | Result   | Flag     | Result   | Flag | Result | Flag | Result | Flag |
| Chloromethane             | 11       | UJ       | 11       | UJ       | 15       | UJ   | 11     | UJ   | 10     | U    |
| Bromomethane              | 11       | U        | 11       | U        | 15       | U    | 11     | U    | 10     | U    |
| Vinyl Chloride            | 11       | UJ       | 11       | UJ       | 15       | UJ   | 11     | UJ   | 10     | U    |
| Chloroethane              | 11       | U        | 11       | U        | 15       | U    | 11     | U    | 10     | U    |
| Methylene Chloride        | 19       | U        | 75       |          | 57       |      | 20     | U    | 10     | U    |
| Acetone                   | 2        | J        | 4        | J        | 7        | J    | 3      | J    | 10     | UJ   |
| Carbon Disulfide          | 11       | U        | 11       | U        | 15       | U    | 11     | U    | 10     | U    |
| 1,1-Dichloroethene        | 11       | U        | 11       | U        | 15       | U    | 11     | U    | 10     | U    |
| 1,1-Dichloroethane        | 11       | U        | 11       | U        | 15       | U    | 11     | U    | 10     | U    |
| Total 1,2-Dichloroethene  | 11       | U        | 11       | U        | 15       | U    | 11     | U    | 10     | U    |
| Chloroform                | 11       | U        | 11       | U        | 15       | U    | 11     | U    | 10     | U    |
| 1,2-Dichloroethane        | 11       | U        | 11       | U        | 15       | U    | 11     | U    | 10     | U    |
| 2-Butanone                | 11       | UJ       | 11       | UJ       | 15       | UJ   | 11     | UJ   | 10     | U    |
| 1,1,1-Trichloroethane     | 11       | U        | 11       | U        | 15       | U    | 11     | U    | 10     | U    |
| Carbon Tetrachloride      | 11       | U        | 11       | U        | 15       | U    | 11     | U    | 10     | U    |
| Bromodichloromethane      | 11       | U        | 11       | U        | 15       | U    | 11     | U    | 10     | U    |
| 1,2-Dichloropropane       | 11       | U        | 11       | U        | 15       | U    | 11     | U    | 10     | U    |
| Cis-1,3-Dichloropropene   | 11       | U        | 11       | U        | 15       | U    | 11     | U    | 10     | U    |
| Trichloroethene           | 11       | U        | 11       | U        | 15       | U    | 11     | U    | 10     | U    |
| Dibromochloromethane      | 11       | U        | 11       | U        | 15       | U    | 11     | U    | 10     | U    |
| 1,1,2-Trichloroethane     | 11       | U        | 11       | U        | 15       | U    | 11     | U    | 10     | U    |
| Benzene                   | 11       | U        | 11       | U        | 15       | U    | 11     | U    | 10     | U    |
| Trans-1,3-Dichloropropene | 11       | U        | 11       | U        | 15       | U    | 11     | U    | 10     | U    |
| Bromoform                 | 11       | U        | 11       | U        | 15       | U    | 11     | U    | 10     | U    |
| 4-Methyl-2-pentanone      | 11       | UJ       | 11       | UJ       | 15       | UJ   | 11     | UJ   | 10     | U    |
| 2-Hexanone                | 11       | UJ       | 11       | UJ       | 15       | UJ   | 11     | UJ   | 10     | U    |
| Tetrachloroethene         | 11       | U        | 11       | U        | 15       | U    | 11     | U    | 10     | U    |
| 1,1,2,2-Tetrachloroethane | 11       | U        | 11       | U        | 15       | U    | 11     | U    | 10     | U    |
| Toluene                   | 11       | U        | 11       | U        | 15       | U    | 11     | U    | 10     | U    |
| Chlorobenzene             | 11       | U        | 11       | U        | 15       | U    | 11     | U    | 10     | U    |
| Ethylbenzene              | 11       | U        | 11       | U        | 15       | U    | 11     | U    | 10     | U    |
| Styrene                   | 11       | U        | 11       | U        | 15       | U    | 11     | U    | 10     | U    |
| Xylene (total)            | 11       | U        | 11       | U        | 15       | U    | 11     | U    | 10     | U    |

Semivolatile Analysis Data - ECMK0  
Tentatively Identified Compounds

CASE NO: 26551  
SDG NO: ECMK2

LABORATORY: COMPUCHEM

| CAS NUMBER | COMPOUND NAME           | RT    | ESTIMATED CONCENTRATION | Q |
|------------|-------------------------|-------|-------------------------|---|
|            | UNKNOWN (BC)            | 5.29  | 240.000                 |   |
|            | CYCLOPENTAPHENANTHRENE  | 14.90 | 310.000                 |   |
|            | ANTHRACENEDIONE         | 15.29 | 200.000                 |   |
|            | BENZOFUORENE            | 16.93 | 350.000                 |   |
|            | METHYLPYRENE            | 17.25 | 230.000                 |   |
|            | UNKNOWN                 | 17.67 | 260.000                 |   |
|            | BENZANTHRACENONE        | 17.82 | 240.000                 |   |
|            | BENZONAPHTHOTHIOPHENE   | 17.98 | 260.000                 |   |
|            | UNKNOWN                 | 18.04 | 280.000                 |   |
|            | UNKNOWN                 | 18.18 | 210.000                 |   |
|            | UNKNOWN                 | 18.60 | 210.000                 |   |
|            | UNKNOWN                 | 19.06 | 220.000                 |   |
|            | METHYLBENZANTHRACENE    | 19.12 | 270.000                 |   |
|            | METHYLCHRYSENE          | 19.19 | 220.000                 |   |
|            | UNKNOWN                 | 19.33 | 470.000                 |   |
|            | UNKNOWN                 | 19.48 | 230.000                 |   |
|            | UNKNOWN                 | 19.66 | 320.000                 |   |
|            | UNKNOWN                 | 19.75 | 230.000                 |   |
|            | UNKNOWN                 | 19.93 | 410.000                 |   |
|            | UNKNOWN                 | 20.04 | 330.000                 |   |
|            | BENZOFUORANTHENE        | 20.32 | 480.000                 |   |
|            | UNKNOWN                 | 20.41 | 230.000                 |   |
|            | UNKNOWN                 | 20.48 | 350.000                 |   |
|            | BENZOFUORANTHENE        | 20.58 | 870.000                 |   |
|            | METHYLBENZACEANTHRYLENE | 20.85 | 330.000                 |   |
|            | UNKNOWN                 | 20.90 | 230.000                 |   |
|            | UNKNOWN                 | 21.00 | 230.000                 |   |
|            | UNKNOWN                 | 21.19 | 390.000                 |   |
|            | UNKNOWN                 | 21.30 | 280.000                 |   |
|            | UNKNOWN                 | 21.44 | 280.000                 |   |
|            | UNKNOWN                 | 21.66 | 250.000                 |   |

## Semivolatile Analysis Data - ECMK1DL

Tentatively Identified Compounds

LABORATORY: COMPUCHEM

CASE NO: 26551

SDG NO: ECMK2

| CAS NUMBER | COMPOUND NAME          | RT    | ESTIMATED CONCENTRATION | Q |
|------------|------------------------|-------|-------------------------|---|
|            | METHYLANTHRACENE       | 14.72 | 1200.000                |   |
|            | METHYLPHENANTHRENE     | 14.75 | 1100.000                |   |
|            | CYCLOPENTAPHENANTHRENE | 14.89 | 2800.000                |   |
|            | PHENYLNAPHTHALENE      | 15.26 | 1400.000                |   |
|            | UNKNOWN                | 15.80 | 1100.000                |   |
|            | UNKNOWN                | 16.09 | 1200.000                |   |
|            | BENZOFUORENE           | 16.92 | 1800.000                |   |
|            | UNKNOWN                | 18.03 | 1900.000                |   |
|            | METHYLCHRYSENE         | 19.11 | 1300.000                |   |
|            | UNKNOWN                | 19.64 | 1300.000                |   |
|            | UNKNOWN                | 19.92 | 1400.000                |   |
|            | BENZOFUORANTHENE       | 20.29 | 3100.000                |   |
|            | UNKNOWN                | 20.40 | 1400.000                |   |
|            | UNKNOWN                | 20.46 | 2300.000                |   |
|            | PERYLENE               | 20.55 | 7200.000                |   |
|            | UNKNOWN                | 20.82 | 2100.000                |   |
|            | UNKNOWN                | 20.87 | 1500.000                |   |
|            | UNKNOWN                | 20.97 | 1800.000                |   |
|            | UNKNOWN                | 21.04 | 1500.000                |   |
|            | UNKNOWN                | 21.16 | 2000.000                |   |
|            | UNKNOWN                | 21.27 | 1700.000                |   |
|            | UNKNOWN                | 21.39 | 2200.000                |   |
|            | UNKNOWN                | 22.20 | 2300.000                |   |
|            | UNKNOWN                | 22.34 | 2600.000                |   |
|            | DIBENZANTHRACENE       | 22.78 | 1400.000                |   |
|            | DIBENZANTHRACENE       | 22.85 | 1400.000                |   |
|            | INDENOPYRENE           | 23.32 | 1500.000                |   |
|            | NAPHTHOCHRYSENE        | 25.90 | 1500.000                |   |
|            | DIBENZONAPHTHACENE     | 26.12 | 1100.000                |   |
|            | UNKNOWN                | 27.17 | 1400.000                |   |

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## Semivolatile Analysis Data - ECMK0DL

Tentatively Identified Compounds

CASE NO: 26551  
SDG NO: ECMK2

LABORATORY: COMPUCEM

| CAS NUMBER | COMPOUND NAME            | RT    | ESTIMATED CONCENTRATION | Q |
|------------|--------------------------|-------|-------------------------|---|
|            | UNKNOWN (BC)             | 5.26  | 220.000                 |   |
|            | METHYLANTHRACENE         | 14.72 | 240.000                 |   |
|            | METHYLANTHRACENE         | 14.75 | 210.000                 |   |
|            | CYCLOPENTAPHENANTHRENE   | 14.89 | 420.000                 |   |
|            | PHENYLNAPHTHALENE        | 15.26 | 280.000                 |   |
|            | UNKNOWN                  | 15.75 | 190.000                 |   |
|            | CYCLOPENTAPHENANTHRENONE | 15.80 | 210.000                 |   |
|            | BENZONAPHTHOFURAN        | 16.53 | 210.000                 |   |
|            | BENZOFUORENE             | 16.90 | 380.000                 |   |
|            | UNKNOWN                  | 17.66 | 270.000                 |   |
|            | BENZANTHRACENONE         | 17.79 | 250.000                 |   |
|            | BENZONAPHTHOTHIOPHENE    | 17.96 | 240.000                 |   |
|            | UNKNOWN                  | 18.03 | 210.000                 |   |
|            | BENZANTHRACENONE         | 18.15 | 180.000                 |   |
|            | UNKNOWN                  | 18.76 | 230.000                 |   |
|            | METHYLBENZANTHRACENE     | 19.09 | 240.000                 |   |
|            | UNKNOWN                  | 19.30 | 300.000                 |   |
|            | UNKNOWN                  | 20.04 | 260.000                 |   |
|            | BENZOPYRENE              | 20.29 | 420.000                 |   |
|            | UNKNOWN                  | 20.46 | 470.000                 |   |
|            | BENZOPYRENE              | 20.53 | 1000.000                |   |
|            | UNKNOWN                  | 20.80 | 260.000                 |   |
|            | UNKNOWN                  | 20.87 | 240.000                 |   |
|            | UNKNOWN                  | 20.97 | 190.000                 |   |
|            | UNKNOWN                  | 21.02 | 200.000                 |   |
|            | UNKNOWN                  | 21.14 | 310.000                 |   |
|            | UNKNOWN                  | 21.27 | 180.000                 |   |
|            | UNKNOWN                  | 22.19 | 200.000                 |   |
|            | UNKNOWN                  | 22.34 | 260.000                 |   |
|            | DIBENZPYRENE             | 25.90 | 320.000                 |   |
|            | NAPHTHOCHRYSENE          | 26.12 | 210.000                 |   |

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Semivolatile Analysis Data - ECMK4  
 Tentatively Identified Compounds

CASE NO: 26551  
 SDG NO: ECMK2

LABORATORY: COMPUCHEM

| CAS NUMBER | COMPOUND NAME     | RT    | ESTIMATED CONCENTRATION | Q |
|------------|-------------------|-------|-------------------------|---|
|            | UNKNOWN (BC)      | 5.35  | 230.000                 |   |
|            | BENZOFLOURENE     | 17.01 | 160.000                 |   |
|            | UNKNOWN           | 17.77 | 140.000                 |   |
|            | UNKNOWN           | 18.14 | 150.000                 |   |
|            | UNKNOWN           | 18.70 | 130.000                 |   |
|            | UNKNOWN           | 18.87 | 140.000                 |   |
|            | FLUORANTHENAMINE  | 18.95 | 140.000                 |   |
|            | METHYLCHRYSENE    | 19.23 | 140.000                 |   |
|            | UNKNOWN           | 19.38 | 140.000                 |   |
|            | UNKNOWN           | 19.44 | 210.000                 |   |
|            | UNKNOWN           | 19.50 | 160.000                 |   |
|            | UNKNOWN           | 20.04 | 530.000                 |   |
|            | UNKNOWN           | 20.19 | 300.000                 |   |
|            | UNKNOWN PHTHALATE | 20.36 | 290.000                 |   |
|            | BENZOPYRENE       | 20.42 | 430.000                 |   |
|            | UNKNOWN PHTHALATE | 20.49 | 290.000                 |   |
|            | UNKNOWN           | 20.58 | 340.000                 |   |
|            | PERYLENE          | 20.68 | 830.000                 |   |
|            | UNKNOWN           | 20.95 | 280.000                 |   |
|            | UNKNOWN           | 21.00 | 190.000                 |   |
|            | UNKNOWN           | 21.13 | 280.000                 |   |
|            | UNKNOWN           | 21.18 | 220.000                 |   |
|            | UNKNOWN           | 21.29 | 200.000                 |   |
|            | UNKNOWN           | 21.40 | 190.000                 |   |
|            | UNKNOWN           | 21.56 | 200.000                 |   |
|            | UNKNOWN           | 22.52 | 150.000                 |   |
|            | BENZOCHRYSENE     | 22.98 | 150.000                 |   |
|            | BENZOCHRYSENE     | 23.50 | 170.000                 |   |
|            | UNKNOWN           | 23.75 | 270.000                 |   |
|            | UNKNOWN           | 25.92 | 200.000                 |   |
|            | UNKNOWN           | 26.20 | 150.000                 |   |

Semivolatile Analysis Data - ECMJ4  
 Tentatively Identified Compounds

CASE NO: 26551  
 SDG NO: ECMK2

LABORATORY: COMPUCEM

| CAS NUMBER | COMPOUND NAME        | RT    | ESTIMATED CONCENTRATION | Q |
|------------|----------------------|-------|-------------------------|---|
|            | UNKNOWN (BC)         | 5.36  | 250.000                 |   |
|            | UNKNOWN              | 5.71  | 160.000                 |   |
|            | UNKNOWN              | 17.76 | 80.000                  |   |
|            | BENZOFLUORANTHENE    | 18.15 | 84.000                  |   |
|            | INDENOQUINOLINE      | 18.96 | 80.000                  |   |
|            | METHYLCHRYSENE       | 19.14 | 100.000                 |   |
|            | METHYLCHRYSENE       | 19.21 | 120.000                 |   |
|            | METHYLBENZANTHRACENE | 19.28 | 96.000                  |   |
|            | UNKNOWN              | 19.38 | 110.000                 |   |
|            | UNKNOWN              | 19.45 | 120.000                 |   |
|            | UNKNOWN              | 19.50 | 110.000                 |   |
|            | UNKNOWN              | 19.77 | 190.000                 |   |
|            | UNKNOWN              | 20.04 | 200.000                 |   |
|            | BENZOPYRENE          | 20.41 | 360.000                 |   |
|            | BENZOPYRENE          | 20.67 | 440.000                 |   |
|            | UNKNOWN              | 20.94 | 270.000                 |   |
|            | UNKNOWN              | 21.00 | 240.000                 |   |
|            | UNKNOWN              | 21.14 | 240.000                 |   |
|            | UNKNOWN              | 21.29 | 220.000                 |   |
|            | UNKNOWN              | 21.41 | 250.000                 |   |
|            | UNKNOWN              | 21.54 | 270.000                 |   |
|            | UNKNOWN              | 21.81 | 180.000                 |   |
|            | UNKNOWN              | 22.15 | 100.000                 |   |
|            | UNKNOWN              | 22.35 | 170.000                 |   |
|            | BENZOPERYLENE        | 22.52 | 140.000                 |   |
|            | UNKNOWN              | 22.98 | 150.000                 |   |
|            | UNKNOWN              | 23.10 | 110.000                 |   |
|            | UNKNOWN              | 23.76 | 280.000                 |   |
|            | UNKNOWN              | 25.14 | 130.000                 |   |
|            | UNKNOWN              | 25.92 | 100.000                 |   |
|            | UNKNOWN              | 26.19 | 110.000                 |   |

Semivolatile Analysis Data - ECMK7  
Tentatively Identified Compounds

CASE NO: 26551  
SDG NO: ECMK2

LABORATORY: COMPUCHEM

| IS<br>NUMBER | COMPOUND<br>NAME   | RT    | ESTIMATED<br>CONCENTRATION | Q |
|--------------|--------------------|-------|----------------------------|---|
|              | UNKNOWN (BC)       | 5.36  | 290.000                    |   |
|              | TRIMETHYLBENZENE   | 6.04  | 260.000                    |   |
|              | UNKNOWN            | 12.44 | 330.000                    |   |
|              | UNKNOWN            | 14.69 | 510.000                    |   |
|              | UNKNOWN            | 15.40 | 190.000                    |   |
| 10544-50-0   | SULFUR, MOL. (S8)  | 15.95 | 1700.000                   |   |
|              | UNKNOWN            | 16.24 | 230.000                    |   |
|              | UNKNOWN            | 16.46 | 260.000                    |   |
|              | UNKNOWN            | 16.63 | 170.000                    |   |
|              | METHYLTRIPHENYLENE | 19.21 | 170.000                    |   |
|              | UNKNOWN            | 19.38 | 170.000                    |   |
|              | UNKNOWN            | 19.45 | 190.000                    |   |
|              | UNKNOWN            | 19.50 | 180.000                    |   |
|              | UNKNOWN            | 19.77 | 280.000                    |   |
|              | UNKNOWN            | 19.87 | 200.000                    |   |
|              | UNKNOWN            | 20.13 | 340.000                    |   |
|              | UNKNOWN            | 20.18 | 250.000                    |   |
|              | BENZOPYRENE        | 20.41 | 460.000                    |   |
|              | UNKNOWN            | 20.48 | 260.000                    |   |
|              | UNKNOWN            | 20.58 | 300.000                    |   |
|              | BENZOFUORANTHENE   | 20.65 | 490.000                    |   |
|              | UNKNOWN            | 20.94 | 280.000                    |   |
|              | UNKNOWN            | 20.99 | 350.000                    |   |
|              | UNKNOWN            | 21.11 | 180.000                    |   |
|              | UNKNOWN            | 21.14 | 320.000                    |   |
|              | UNKNOWN            | 21.29 | 250.000                    |   |
|              | UNKNOWN            | 21.39 | 300.000                    |   |
|              | UNKNOWN            | 21.54 | 310.000                    |   |
|              | UNKNOWN            | 22.34 | 220.000                    |   |
|              | UNKNOWN            | 22.51 | 200.000                    |   |
|              | UNKNOWN            | 23.76 | 180.000                    |   |

## Semivolatile Analysis Data - ECMJ5

Tentatively Identified Compounds

CASE NO: 26551  
SDG NO: ECMK2

LABORATORY: COMPUCHEM

| CAS<br>NUMBER | COMPOUND<br>NAME        | RT    | ESTIMATED<br>CONCENTRATION | Q |
|---------------|-------------------------|-------|----------------------------|---|
|               | VOA TCL                 | 4.59  | 130.000                    |   |
|               | UNKNOWN (BC)            | 5.37  | 320.000                    |   |
|               | UNKNOWN                 | 5.71  | 150.000                    |   |
|               | CYCLOPENTAPHENANTHRENE  | 14.98 | 160.000                    |   |
|               | UNKNOWN CARBOXYLIC ACID | 15.12 | 120.000                    |   |
|               | ANTHRACENEDIONE         | 15.37 | 130.000                    |   |
|               | CYCLOPENTPHENANTHRENONE | 15.90 | 120.000                    |   |
|               | BENZOFLOURENE           | 16.99 | 270.000                    |   |
|               | UNKNOWN                 | 17.74 | 330.000                    |   |
|               | BENZANTHRACENONE        | 17.89 | 170.000                    |   |
|               | BENZONAPHTHOTHIOPHENE   | 18.06 | 180.000                    |   |
|               | UNKNOWN                 | 18.13 | 190.000                    |   |
|               | METHYLCHRYSENE          | 19.19 | 150.000                    |   |
|               | UNKNOWN                 | 19.36 | 120.000                    |   |
|               | UNKNOWN                 | 19.39 | 110.000                    |   |
|               | UNKNOWN                 | 19.73 | 130.000                    |   |
|               | UNKNOWN                 | 20.56 | 220.000                    |   |
|               | BENZOPYRENE             | 20.64 | 890.000                    |   |
|               | UNKNOWN                 | 20.91 | 180.000                    |   |
|               | UNKNOWN                 | 20.98 | 150.000                    |   |
|               | UNKNOWN                 | 21.08 | 120.000                    |   |
|               | UNKNOWN                 | 21.13 | 130.000                    |   |
|               | UNKNOWN                 | 21.27 | 210.000                    |   |
|               | UNKNOWN                 | 21.39 | 120.000                    |   |
|               | UNKNOWN                 | 21.52 | 190.000                    |   |
|               | UNKNOWN                 | 22.33 | 240.000                    |   |
|               | DIBENZPHENANTHRENE      | 22.93 | 130.000                    |   |
|               | UNKNOWN                 | 23.09 | 120.000                    |   |
|               | DIBENZOCHRYSENE         | 23.48 | 170.000                    |   |
|               | UNKNOWN                 | 23.80 | 200.000                    |   |
|               | UNKNOWN                 | 24.24 | 160.000                    |   |
|               | DIBENZPYRENE            | 26.15 | 270.000                    |   |

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## Semivolatle Analysis Data - ECMK3

Tentatively Identified Compounds

LABORATORY: COMPUCEM

CASE NO: 26551

SDG NO: ECMK2

| CAS NUMBER | COMPOUND NAME                | RT    | ESTIMATED CONCENTRATION | Q |
|------------|------------------------------|-------|-------------------------|---|
|            | UNKNOWN (BC)                 | 5.28  | 400.000                 |   |
|            | UNKNOWN CARBOXYLIC ACID (BC) | 14.27 | 100.000                 |   |
| 10544-50-0 | SULFUR, MOL. (S8)            | 14.99 | 120.000                 |   |
|            | UNKNOWN ACID ESTER           | 16.90 | 93.000                  |   |
|            | UNKNOWN                      | 20.54 | 89.000                  |   |
|            | UNKNOWN                      | 20.77 | 160.000                 |   |
|            | UNKNOWN                      | 22.71 | 100.000                 |   |
|            | UNKNOWN                      | 23.45 | 160.000                 |   |
|            | UNKNOWN                      | 23.69 | 9000.000                |   |
|            | UNKNOWN                      | 23.92 | 160.000                 |   |
|            | UNKNOWN                      | 24.02 | 860.000                 |   |
|            | UNKNOWN                      | 24.36 | 200.000                 |   |
|            | UNKNOWN                      | 24.67 | 290.000                 |   |
|            | UNKNOWN                      | 24.81 | 530.000                 |   |
|            | UNKNOWN                      | 25.09 | 220.000                 |   |
|            | UNKNOWN                      | 25.37 | 280.000                 |   |
|            | UNKNOWN                      | 25.72 | 170.000                 |   |
|            | UNKNOWN                      | 26.21 | 230.000                 |   |
|            | UNKNOWN                      | 26.49 | 390.000                 |   |
|            | UNKNOWN                      | 26.77 | 280.000                 |   |
|            | UNKNOWN                      | 27.00 | 200.000                 |   |
|            | UNKNOWN                      | 27.35 | 140.000                 |   |
|            | UNKNOWN                      | 27.56 | 720.000                 |   |
|            | UNKNOWN                      | 27.79 | 980.000                 |   |
|            | UNKNOWN                      | 27.96 | 210.000                 |   |
|            | UNKNOWN                      | 28.10 | 200.000                 |   |
|            | UNKNOWN                      | 28.15 | 190.000                 |   |

FILE NAME: ECMK2.SDG DATE: 10/30/98 TIME: 14:19 CADRE98

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## Semivolatle Analysis Data - SBLKVP

Tentatively Identified Compounds

LABORATORY: COMPUCEM

CASE NO: 26551

SDG NO: ECMK2

| CAS NUMBER | COMPOUND NAME | RT   | ESTIMATED CONCENTRATION | Q |
|------------|---------------|------|-------------------------|---|
|            | UNKNOWN (BC)  | 5.36 | 270.000                 |   |

FILE NAME: ECMK2.SDG DATE: 10/30/98 TIME: 14:19 CADRE98

PAGE: 6

Volatile Analysis Data - ECMK6  
Tentatively Identified Compounds

CASE NO: 26551  
SDG NO: ECMK2

LABORATORY: COMPUCHEM

| CAS NUMBER | COMPOUND NAME    | RT    | ESTIMATED CONCENTRATION | Q |
|------------|------------------|-------|-------------------------|---|
|            | TRIMETHYLBENZENE | 22.36 | 12.000                  | J |

FILE NAME: ECMK2.SDG DATE: 10/30/98 TIME: 14:19 CADRE98 PAGE: 1

Volatile Analysis Data - ECMK7  
Tentatively Identified Compounds

CASE NO: 26551  
SDG NO: ECMK2

LABORATORY: COMPUCHEM

| CAS NUMBER | COMPOUND NAME    | RT    | ESTIMATED CONCENTRATION | Q |
|------------|------------------|-------|-------------------------|---|
|            | TRIMETHYLBENZENE | 22.38 | 18.000                  | J |

FILE NAME: ECMK2.SDG DATE: 10/30/98 TIME: 14:19 CADRE98 PAGE: 2

Semivolatile Analysis Data - SBLKTD  
Tentatively Identified Compounds

CASE NO: 26551  
SDG NO: ECMK2

LABORATORY: COMPUCHEM

| CAS NUMBER | COMPOUND NAME                | RT    | ESTIMATED CONCENTRATION | Q |
|------------|------------------------------|-------|-------------------------|---|
|            | UNKNOWN (BC)                 | 5.28  | 400.000                 |   |
|            | UNKNOWN CARBOXYLIC ACID (BC) | 14.26 | 99.000                  |   |

FILE NAME: ECMK2.SDG DATE: 10/30/98 TIME: 14:19 CADRE98 PAGE: 3

Semivolatile Analysis Data - ECMK2  
Tentatively Identified Compounds

CASE NO: 26551  
SDG NO: ECMK2

LABORATORY: COMPUCHEM

| CAS NUMBER | COMPOUND NAME                | RT    | ESTIMATED CONCENTRATION | Q |
|------------|------------------------------|-------|-------------------------|---|
|            | UNKNOWN (BC)                 | 5.28  | 260.000                 |   |
|            | UNKNOWN CARBOXYLIC ACID (BC) | 14.27 | 140.000                 |   |
|            | UNKNOWN                      | 19.28 | 120.000                 |   |
|            | UNKNOWN                      | 20.52 | 77.000                  |   |
|            | UNKNOWN                      | 23.43 | 120.000                 |   |
|            | UNKNOWN                      | 23.66 | 4100.000                |   |
|            | UNKNOWN                      | 23.73 | 450.000                 |   |
|            | UNKNOWN                      | 23.92 | 120.000                 |   |
|            | UNKNOWN                      | 24.02 | 510.000                 |   |
|            | UNKNOWN                      | 24.36 | 94.000                  |   |
|            | UNKNOWN                      | 24.69 | 300.000                 |   |
|            | UNKNOWN                      | 24.81 | 570.000                 |   |
|            | UNKNOWN                      | 25.11 | 200.000                 |   |
|            | UNKNOWN                      | 25.37 | 160.000                 |   |
|            | UNKNOWN                      | 25.53 | 88.000                  |   |
|            | UNKNOWN                      | 25.70 | 260.000                 |   |
|            | UNKNOWN                      | 26.21 | 170.000                 |   |
|            | UNKNOWN                      | 26.35 | 260.000                 |   |
|            | UNKNOWN                      | 26.49 | 220.000                 |   |
|            | UNKNOWN                      | 26.77 | 230.000                 |   |
| 1058-61-3  | STIGMAST-4-EN-3-ONE          | 27.00 | 380.000                 |   |
|            | UNKNOWN                      | 27.35 | 280.000                 |   |
|            | UNKNOWN                      | 27.44 | 73.000                  |   |
|            | UNKNOWN                      | 27.56 | 1200.000                |   |
|            | UNKNOWN                      | 27.79 | 1100.000                |   |
|            | UNKNOWN                      | 27.96 | 150.000                 |   |
|            | UNKNOWN                      | 28.10 | 290.000                 |   |

FILE NAME: ECMK2.SDG DATE: 10/30/98 TIME: 14:19 CADRE98 PAGE: 4

## CADRE Data Qualifier Sheet

### Qualifiers

### Data Qualifier Definitions

- U The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- J The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.
- UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the action limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
- N The analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification.
- NJ The analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification and the associated numerical value represents its approximate concentration.
- R The data are unusable. (The compound may or may not be present)
- H Sample result is estimated and biased high.
- L Sample result is estimated and biased low.

Case Number : 26551  
Site Name: Kinco Dump (IN)

SDG Number: ECMK2  
Laboratory: Compuchem

## 11. SYSTEM PERFORMANCE

GC/MS baseline indicated acceptable performance.

## 12. ADDITIONAL INFORMATION

Below is the summary of the pH for the samples of this data set:ECMJ4-ECMJ9, ECMK0-ECMK7

| Sample ID | pH  |
|-----------|-----|
| ECMJ4     | 6.8 |
| ECMJ5     | 6.3 |
| ECMJ6     | 9.1 |
| ECMJ7     | 7.0 |
| ECMJ8     | 7.7 |
| ECMJ9     | 7.9 |
| ECMK0     | 7.9 |
| ECMK1     | 7.5 |
| ECMK2     | 6.4 |
| ECMK3     | 6.2 |
| ECMK4     | 6.5 |
| ECMK5     | 7.8 |
| ECMK6     | 6.2 |
| ECMK7     | 7.7 |

No flag was entered for the SVOA TIC results for CADRE report, please refer to Form I SVOA for the final flag of the SVOA TIC results.

No reports were print out for the method blanks.

The results for fluoranthene, benzo(k)fluoranthene for ECMK0 were quantitated outside the calibration range. The results for phenanthrene, anthracene, fluoranthene, pyrene, benzo(a)anthracene, chrysene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)pyrene and benzo(g,h,i)perylene for sample ECMK1 were quantitated outside the calibration range. For any analyte that exceeded the calibration range in the original sample analysis; the results of the diluted analysis should be considered the sample's analyte concentration. Please, refer to Form Is for compounds which were quantitated outside the calibration range for the above SVOA samples.

Prepared By: Steffanie Tobin (Lockheed/ESAT)  
Date: November 10, 1998

Case Number : 26551  
Site Name: Kinco Dump (IN)

SDG Number: ECMK2  
Laboratory: Compuchem

## ECMJ9

Phenanthrene, Fluoranthene, Pyrene, Benzo(a)anthracene  
Chrysene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene  
Indeno(1,2,3-cd)pyrene, Benzo(g,h,i)perylene

## ECMK0

4-Methylphenol, Naphthalene, 2-Methylnaphthalene, Acenaphthylene  
Acenaphthene, Dibenzofuran, Fluorene, Carbazole, bis(2-Ethylhexyl)phthalate

## ECMK0DL

Naphthalene, 2-Methylnaphthalene, Acenaphthylene, Acenaphthene  
Dibenzofuran, Fluorene, Anthracene, Carbazole, Dibenz(a,h)anthracene

## ECMK1

bis(2-Ethylhexyl)phthalate

## ECMK1DL

Naphthalene, 2-Methylnaphthalene, Acenaphthylene, Acenaphthene  
Dibenzofuran, Fluorene, Anthracene, Carbazole, Dibenz(a,h)anthracene

## ECMK2

bis(2-Ethylhexyl)phthalate

## ECMK4

Acenaphthene, Anthracene, Carbazole, bis(2-Ethylhexyl)phthalate  
Di-n-octylphthalate

## ECMK5

Phenanthrene, Fluoranthene, Pyrene, Benzo(a)anthracene  
Chrysene, bis(2-Ethylhexyl)phthalate, Benzo(b)fluoranthene, Benzo(k)fluoranthene  
Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Dibenz(a,h)anthracene, Benzo(g,h,i)perylene

## ECMK6

1,4-Dichlorobenzene, Naphthalene, Diethylphthalate, Phenanthrene  
Anthracene, Butylbenzylphthalate, Benzo(a)anthracene, bis(2-Ethylhexyl)phthalate  
Indeno(1,2,3-cd)pyrene, Dibenz(a,h)anthracene, Benzo(g,h,i)perylene

## ECMK7

1,4-Dichlorobenzene, Naphthalene, Diethylphthalate, Phenanthrene  
Anthracene, Benzo(a)anthracene, bis(2-Ethylhexyl)phthalate, Indeno(1,2,3-cd)pyrene  
Dibenz(a,h)anthracene, Benzo(g,h,i)perylene

Case Number : 26551  
Site Name: Kinco Dump (IN)

SDG Number: ECMK2  
Laboratory: Compuchem

VBLKX4  
Methylene Chloride, 2-Hexanone

VHBLKY9  
Methylene Chloride, Acetone

The following semivolatile samples have analyte concentrations below the quantitation limit (CRQL). All results below the CRQL are qualified "J".

ECMJ4  
Acenaphthylene, Phenanthrene, Anthracene, Di-n-butylphthalate, Benzo(a)anthracene, Chrysene, bis(2-Ethylhexyl)phthalate, Dibenz(a,h)anthracene, Benzo(g,h,i)perylene

ECMJ5  
Acenaphthylene, Fluorene, Anthracene, Carbazole  
Di-n-butylphthalate, bis(2-Ethylhexyl)phthalate, Dibenz(a,h)anthracene

ECMJ6  
Phenanthrene, Pyrene, Benzo(a)anthracene, Chrysene  
bis(2-Ethylhexyl)phthalate, Di-n-octylphthalate, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene  
Dibenz(a,h)anthracene, Benzo(g,h,i)perylene

ECMJ7  
Anthracene, Carbazole, Benzo(a)anthracene, Chrysene  
bis(2-Ethylhexyl)phthalate, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene  
Indeno(1,2,3-cd)pyrene, Dibenz(a,h)anthracene, Benzo(g,h,i)perylene

ECMJ7MS  
Naphthalene, Pentachlorophenol, Phenanthrene, Benzo(a)anthracene  
Chrysene, bis(2-Ethylhexyl)phthalate, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene  
Dibenz(a,h)anthracene, Benzo(g,h,i)perylene

ECMJ7MSD  
Naphthalene, Pentachlorophenol, Phenanthrene, Fluoranthene  
Benzo(a)anthracene, Chrysene, bis(2-Ethylhexyl)phthalate, Benzo(b)fluoranthene  
Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Dibenz(a,h)anthracene  
Benzo(g,h,i)perylene

ECMJ8  
Phenanthrene, Fluoranthene, Pyrene, Benzo(a)anthracene  
Chrysene, bis(2-Ethylhexyl)phthalate, Benzo(b)fluoranthene, Benzo(k)fluoranthene  
Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Benzo(g,h,i)perylene

Prepared By: Steffanie Tobin (Lockheed/ESAT)  
Date: November 10, 1998

Case Number : 26551  
Site Name: Kinco Dump (IN)

SDG Number: ECMK2  
Laboratory: Compuchem

#### 6. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

The relative percent difference (RPD) between the following semivolatile matrix spike and matrix spike duplicate recoveries is outside criteria. Hits are qualified "J" and non-detects are qualified "UJ" for the unspiked sample.

ECMJ7MS, ECMJ7MSD  
1,2,4-Trichlorobenzene, 4-Chloro-3-methylphenol, Acenaphthene, Pyrene

The following semivolatile matrix spike/matrix spike duplicate samples have percent recovery outside criteria. Hits are qualified "J" and non-detects are qualified "UJ" for the unspiked sample.

ECMJ7MSD  
N-Nitroso-di-n-propylamine, 1,2,4-Trichlorobenzene, Pyrene

#### 7. FIELD BLANK AND FIELD DUPLICATE

None of the samples in this data set are field blanks or field duplicates.

#### 8. INTERNAL STANDARDS

No problems were found for this qualification.

#### 9. COMPOUND IDENTIFICATION

After reviewing the mass spectra and chromatograms, it appears that all VOA and SVOA compounds were properly identified.

#### 10. COMPOUND QUANTITATION AND REPORTED DETECTION LIMITS

The following volatile samples have analyte concentrations below the quantitation limit (CRQL). All results below the CRQL are qualified "J".

ECMJ4, ECMJ5, ECMJ6, ECMJ7, ECMJ9, ECMK0, ECMK1, ECMK2, ECMK3  
Acetone

ECMK6  
1,1-Dichloroethane, Benzene, Xylene (total)

ECMK7  
Carbon Disulfide, 1,1-Dichloroethane, Benzene, Xylene (total)

VBLKA5, VBLKX5  
Methylene Chloride, Acetone, 2-Butanone, 2-Hexanone

Prepared By: Steffanie Tobin (Lockheed/ESAT)  
Date: November 10, 1998

Case Number : 26551  
Site Name: Kinco Dump (IN)

SDG Number: ECMK2  
Laboratory: Compuchem

4-Nitroaniline

ECMK0, ECMK0DL, ECMK1DL, ECMK2, ECMK3, SBLKTD

4,6-Dinitro-2-methylphenol, Di-n-octylphthalate

ECMJ4, ECMJ5, ECMJ6, ECMJ7, ECMJ7MS, ECMJ7MSD  
ECMJ8, ECMJ9, ECMK1, ECMK4, ECMK5, ECMK6, ECMK7, SBLKVP

Hexachlorobenzene, Carbazole, 3,3'-Dichlorobenzidine

ECMK2, ECMK3, SBLKTD

bis(2-Ethylhexyl)phthalate

ECMJ4, ECMJ5, ECMJ6, ECMJ7, ECMJ7MS, ECMJ7MSD  
ECMJ8, ECMJ9, ECMK0, ECMK0DL, ECMK1, ECMK1DL  
ECMK2, ECMK3, ECMK4, ECMK5, ECMK6, ECMK7, SBLKTD, SBLKVP

#### 4. METHOD BLANKS

The following volatile samples have analyte concentrations reported above the CRQL and less than or equal to ten times (10X) the associated method blank concentration. Hits are biased high and qualified "U" and non-detects are not flagged.

Methylene Chloride

ECMJ4, ECMJ7, ECMJ9, ECMJ9MSD, ECMK0, ECMK1  
ECMK3, ECMK4, ECMK5, ECMK6, ECMK7

Acetone

ECMK7

The following volatile samples have analyte concentrations reported below the CRQL and less than or equal to ten times (10X) the associated method blank concentration. Reported sample concentrations have been elevated to the CRQL. Hits are qualified "U" and non-detects are not flagged.

Methylene Chloride

ECMJ8, ECMJ9MS

Acetone

ECMJ8, ECMK6

2-Butanone

ECMK6, ECMK7

#### 5. SYSTEM MONITORING COMPOUND AND SURROGATE RECOVERY

No problems were found for this qualification.

Prepared By: Steffanie Tobin (Lockheed/ESAT)  
Date: November 10, 1998

Case Number : 26551  
Site Name: Kinco Dump (IN)

SDG Number: ECMK2  
Laboratory: Compuchem

### 1. HOLDING TIME

No problems were found for this qualification.

### 2. GC/MS TUNING AND GC INSTRUMENT PERFORMANCE

No problems were found for this qualification.

### 3. CALIBRATION

The following volatile samples are associated with a continuing calibration whose corresponding initial calibration has percent relative standard deviation (%RSD) outside primary criteria. Hits are qualified "J" and non-detects are flagged "UJ".

Acetone

ECMJ4, ECMJ5, ECMJ6, ECMJ7, ECMJ8, ECMJ9  
ECMJ9MS, ECMJ9MSD, ECMK0, ECMK1, ECMK2, ECMK3  
ECMK4, ECMK5, ECMK6, ECMK7, VBLKA5, VBLKX4, VBLKX5, VHBLKY9

The following volatile samples are associated with a continuing calibration percent difference (%D) outside primary criteria. Hits are qualified "J" and non-detects are qualified "UJ".

Chloromethane, Vinyl Chloride, 2-Butanone, 4-Methyl-2-Pentanone, 2-Hexanone  
ECMJ4, ECMJ5, ECMJ6, ECMJ7, ECMJ9, ECMK0  
ECMK1, ECMK2, ECMK3, VBLKX4

Acetone

ECMJ8, ECMJ9MS, ECMJ9MSD, ECMK4, ECMK5, ECMK6  
ECMK7, VBLKA5, VBLKX5, VHBLKY9

The following semivolatile samples are associated with a continuing calibration whose corresponding initial calibration has percent relative standard deviation (%RSD) outside primary criteria. Hits are qualified "J" and non-detects are flagged "UJ".

4-Nitroaniline, Carbazole  
ECMK2, ECMK3, SBLKTD

The following semivolatile samples are associated with a continuing calibration percent difference (%D) outside primary criteria. Hits are qualified "J" and non-detects are qualified "UJ".

Hexachlorobutadiene, 2,4-Dinitrophenol, Pentachlorophenol, Butylbenzylphthalate  
ECMJ4, ECMJ5, ECMJ6, ECMJ7, ECMJ7MS, ECMJ7MSD, ECMJ8, ECMJ9, ECMK0,  
ECMK0DL, ECMK1, ECMK1DL, ECMK4, ECMK5, ECMK6, ECMK7, SBLKVP

Prepared By: Steffanie Tobin (Lockheed/ESAT)  
Date: November 10, 1998

Case Number : 26551

Site Name: Kinco Dump (IN)

SDG Number: ECMK2

Laboratory: Compuchem

**Below is a summary of the out-of-control audits and the possible effects on the data for this case:**

Fourteen soil samples (ECMJ4-ECMJ9, ECMK0-ECMK7) were collected on 10/15/98. The lab received the samples on 10/16/98 in good condition. All samples were analyzed for the list of VOA and SVOA analytes. All samples were analyzed according to CLP SOW OLMO3.2 3/90.

Prepared By: Steffanie Tobin (Lockheed/ESAT)  
Date: November 10, 1998

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION V

DATE: \_\_\_\_\_

SUBJECT: Review of Data  
Received for Review on November 3, 1998

FROM: Stephen L. Ostrodka, Chief (SRT-4J)  
Superfund Technical Support Section

*for Steve Ostrodka  
Richard L. Pappas  
11/18/98*

TO: Data User: US Army Corp. of Engineering

We have reviewed the data for the following case:

Site name: Hinco Dump (IN)

Case number: 26551 SDG Number: ECMK2

Number and Type of Samples: 14 soil samples *SVOCs + VOCs*

Sample Numbers: ECMJ4-ECMJ9, ECMK0-ECMK7

Laboratory: Compuchem Hrs. for Review: 11 hrs

Following are our findings:

*the data are usable and acceptable with the  
qualifications described in the attached narrative  
Richard L. Pappas*

CC: Cecilia Moore  
Region 5 TPO  
Mail Code: SM-5J

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION V

ESD Central Regional Laboratory  
Data Tracking Form for Contract Samples

Data Set No: \_\_\_\_\_ CERCLIS No: IN/0545  
Case No: 26551 Site Name Location: Heaped Dump  
Contractor or EPA Lab: Dittachem Data User: USACE  
No. of Samples: 14 Date Sampled or Data Received: 11-16-98

Have Chain-of-Custody records been received? Yes  No   
Have traffic reports or packing lists been received? Yes  No   
If no, are traffic report or packing list numbers written on the chain-of-custody record? Yes  No   
If no, which traffic report or packing list numbers are missing?  
\_\_\_\_\_  
\_\_\_\_\_

Are basic data forms in? Yes  No   
No of samples claimed: 14 No. of samples received: 14  
Received by: Lynette Burnett Date: 11-16-98  
Received by LSSS: Lynette Burnett Date: 11-16-98  
Review started: 11-17-98 Reviewer Signature: Tania Shammur  
Total time spent on review: 9.5 hrs Date review completed: 11-18-98  
Copied by: Lynette Burnett <sup>+1.5 hr</sup> Date: 11-25-98  
Mailed to user by: Lynette Burnett Date: 11-25-98

**DATA USER:**

Please fill in the blanks below and return this form to:  
Sylvia Griffen, Data mgmt. Coordinator, Region V, SSCRL

Data received by: \_\_\_\_\_ Date: \_\_\_\_\_

Data review received by: \_\_\_\_\_ Date: \_\_\_\_\_

|                         |     |                               |     |      |
|-------------------------|-----|-------------------------------|-----|------|
| Inorganic Data Complete | [ ] | Suitable for Intended Purpose | [ ] | ✓ if |
| Organic Data Complete   | [ ] | Suitable for Intended Purpose | [ ] | ✓ if |
| Dioxin Data Complete    | [ ] | Suitable for Intended Purpose | [ ] | ✓ if |
| SAS Data Complete       | [ ] | Suitable for Intended Purpose | [ ] | ✓ if |

**PROBLEMS:** Please indicate reasons why data are not suitable for your uses.  
\_\_\_\_\_  
\_\_\_\_\_

Received by Data Mgmt. Coordinator for Files. Data: \_\_\_\_\_



United States Environmental Protection Agency  
Contract Laboratory Program

### Organic Traffic Report & Chain of Custody Record (For Organic CLP Analysis)

Case No. 2055

|   |   |   |   |  |   |   |
|---|---|---|---|--|---|---|
| <b>1. Matrix (Enter in Column A)</b><br>1. Surface Water<br>2. Ground Water<br>3. Leachate<br>4. Field QC<br>5. Soil/Sediment<br>6. Oil (High only)<br>7. Waste (High only)<br>8. Other (Specify in Column A) | <b>2. Preservative (Enter in Column D)</b><br>1. HCl<br>2. HNO3<br>3. NaHSO4<br>4. H2SO4<br>5. Ice only<br>6. Other (Specify in Column D)<br>N. Not preserved | <b>2. Region No</b><br>5                    | <b>Sampling Co.</b><br>USACE - Omaha District | <b>4. Date Shipped</b><br>10/15/98   | <b>Carrier</b><br>FEDX  | <b>6. Date Received -- Received by:</b><br>10/20/98 Alice Evans |
|   |   | <b>Sampler (Name)</b><br>Carole Schmedel    |   | <b>Airbill Number</b><br>7222748234  | <b>Laboratory Contract Number</b><br>68050009                     | <b>Unit Price</b><br>805-                                       |
|   |   | <b>Sampler Signature</b><br>Carole Schmedel |   | <b>5. Ship To</b><br>CompuChem Environmental Corp.<br>501 Madison Ave<br>Cary, NC 27513<br>ATTN: Alice Evans | <b>7. Transfer to:</b><br>Received by<br>Contract Number<br>Price |   |

| CLP Sample Numbers (from labels) | A Matrix (from Box 1)<br>Other | B Conc. Low Med High | C Sample Type: Comp. Grab | D Preservative (from Box 2)<br>Other | E RAS Analysis |     |     |                   | F Regional Specific Tracking Number or Tag Numbers | G Station Location Identifier | H Mo/Day/Year/Time Sample Collection | I Corresponding CLP Inorganic Sample No. | J Sampler Initials | K High Phases |                     |                      |
|----------------------------------|--------------------------------|----------------------|---------------------------|--------------------------------------|----------------|-----|-----|-------------------|--|-------------------------------|--------------------------------------|--|--------------------|---------------|---------------------|----------------------|
|                                  |                                |                      |                           |                                      | VOA            | BNA | POC | High only ARO/TOX |  |                               |                                      |  |                    | Solids        | Water-Miscible Liq. | Water-Immisible Liq. |
| ECMK0                            | S                              | L                    | G                         | 5                                    | X              |     |     |                   | 5-005267, 5-005268                                 | SB20-2                        | 10/15/98 0830                        | MEBQC4                                   | CAE                |               |                     |                      |
| ECMK0                            | S                              | L                    | G                         | 5                                    |                | X   |     |                   | 5-005224   | SB20-2                        | 10/15/98 0830                        | MEBQC4                                   | CAE                |               |                     |                      |
| ECMK1                            | S                              | L                    | G                         | 5                                    |                | X   |     |                   | 5-005146   | SB20-6                        | 10/15/98 0830                        | MEBQC5                                   | CAE                |               |                     |                      |
| ECMK1                            | S                              | L                    | G                         | 5                                    | X              |     |     |                   | 5-005144, 5-005143                                 | SB20-6                        | 10/15/98 0830                        | MEBQC5                                   | CAE                |               |                     |                      |
| ECMK4                            | S                              | L                    | G                         | 5                                    | X              |     |     |                   | 5-005261, 5-005260                                 | SB20-0.5                      | 10/15/98 0830                        | MEBQC3                                   | CAE                |               |                     |                      |
| ECMK4                            | S                              | L                    | G                         | 5                                    |                | X   |     |                   | 5-005262   | SB20-0.5                      | 10/15/98 0830                        | MEBQC3                                   | CAE                |               |                     |                      |
| ECMK7                            | S                              | L                    | G                         | 5                                    | X              |     |     |                   | 5-005238, 5-005237                                 | SB16-100                      | 10/15/98 1415                        | MEBQC4                                   | CAE                |               |                     | Final                |
| ECMK7                            | S                              | L                    | G                         | 5                                    |                | X   |     |                   | 5-005236   | SB16-60                       | 10/15/98 1415                        | MEBQC4                                   | CAE                |               |                     | Sample               |
| ECMK5                            | S                              | L                    | C                         | 5                                    |                | X   |     |                   | 5-005182   | SB16-2                        | 10/15/98 1415                        | MEBQC2                                   | CAE                |               |                     |                      |
| ECMK2                            | S                              | L                    | G                         | 5                                    | X              |     |     |                   | 5-005180, 5-005181                                 | SB16-2                        | 10/15/98 1415                        | MEBQC2                                   | CAE                |               |                     |                      |

Shipment for Case Complete? (Y/N)  **ORIGINAL** Page 3 of 3 Sample(s) to be analyzed Laboratory QC Additional Sampler Signatures Chain of Custody Seal Number(s) 915 075

#### CHAIN OF CUSTODY RECORD

|   |                              |   |                              |                              |                          |
|---|------------------------------|---|------------------------------|------------------------------|--------------------------|
| Relinquished by: (Signature)<br>Carole Schmedel | Date / Time<br>10/15/98 1700 | Received by: (Signature)                | Relinquished by: (Signature) | Date / Time                  | Received by: (Signature) |
| Relinquished by: (Signature)                    | Date / Time                  | Received by: (Signature)                | Relinquished by: (Signature) | Date / Time                  | Received by: (Signature) |
| Relinquished by: (Signature)                    | Date / Time                  | Received by: (Signature)<br>Alice Evans | Relinquished by: (Signature) | Date / Time<br>10/20/98 9:30 | Received by: (Signature) |

Remarks: Is custody seal intact?  Yes /  None  
SHIPMENT REC. AT COMPUCHEM ON 10/20/98  
V.L. Coole # C 98-1148 89

38131

421-012-16 REV



United States Environmental Protection Agency  
Contract Laboratory Program

**Organic Traffic Report  
& Chain of Custody Record**  
(For Inorganic CLP Analysis)

Case No.

26551

|  |                     |  |  |   |                 |  |  |
|--|---------------------|--|--|---|-----------------|--|--|
| 1. Project Code<br>DW 9614-122-01-3    | Account Code        | 2. Region No.<br>V   | Sampling Co.<br>USACE - Omaha District | 4. Date Shipped<br>10/12/98   | Carrier<br>FEDX | 6. Matrix (Enter in Column A)<br>1. Surface Water<br>2. Ground Water<br>3. Leachate<br>4. Field QC<br>5. Soil/Sediment<br>6. Oil (High only)<br>7. Waste (High only)<br>8. Other (specify in Column A) | 7. Preservative (Enter in Column D)<br>1. HCl<br>2. HNO3<br>3. NaOH<br>4. H2SO4<br>5. K2CR2O7<br>6. Ice only<br>7. Other (specify in Column D)<br>N. Not preserved |
| Regional Information                   |                     | Sampler (Name)<br>Carolyn Schwafel   |  | Airbill Number<br>801496295825  |                 |  |  |
| Non-Superfund Program                  |                     | Sampler Signature<br>Carolyn Schwafel  |  | 5. Ship To<br>Dutachem Laboratories<br>960 West LeVoy Drive<br>Salt Lake City, UT 84123 |                 |  |  |
| Site Name<br>Himco Dump Superfund Site |                     | 3. Purpose*<br>Early Action: CLEM, PA, REM, RI, SI, ESI<br>Long Term Action: FFS, RD, RA, O&M, INPLD |  | ATTN: RICHARD WADE  |                 |  |  |
| City, State<br>Elkhart, IN             | Site Spill ID<br>4J |  |  |   |                 |  |  |

| CLP Sample Numbers (from labels) | A Matrix (from Box 6)<br>Other: | B Conc. Low Med High | C Sample Type: Comp./Grab | D Preservative (from Box 7)<br>Other: | E - RAS Analysis |              |         |                  |          |    |                    | F Regional Specific Tracking Number or Tag Numbers | G Station Location Identifier | H Mo/Day/Year/Time Sample Collection | I Corresponding CLP Organic Sample No. | J Sample Initials | K Field QC Qualifier |
|----------------------------------|---------------------------------|----------------------|---------------------------|---------------------------------------|------------------|--------------|---------|------------------|----------|----|--------------------|--|-------------------------------|--------------------------------------|--|-------------------|----------------------|
|                                  |                                 |                      |                           |                                       | Diss. Metals     | Total Metals | Cyanide | Low only NO2/NO3 | Fluoride | pH | High only Conduct. |  |                               |                                      |  |                   |                      |
| MEBQC1                           | S                               | L                    | C                         | S                                     | X                | X            |         |                  |          |    |                    | 5-pp5375, 5-pp5376                                 | SB03-05                       | 10/12/98 1345                        | ECMK2                                  | CAS               | —                    |
| MEBQC2                           | S                               | L                    | C                         | S                                     | X                | X            |         |                  |          |    |                    | 5-pp5223, 5-pp5222                                 | SB03-2                        | 10/12/98 1415                        | ECMK3                                  | CAS               | —                    |
|                                  |                                 |                      |                           |                                       |                  |              |         |                  |          |    |                    |  |                               |                                      |  |                   |                      |
|                                  |                                 |                      |                           |                                       |                  |              |         |                  |          |    |                    |  |                               |                                      |  |                   |                      |
|                                  |                                 |                      |                           |                                       |                  |              |         |                  |          |    |                    |  |                               |                                      |  |                   |                      |
|                                  |                                 |                      |                           |                                       |                  |              |         |                  |          |    |                    |  |                               |                                      |  |                   |                      |
|                                  |                                 |                      |                           |                                       |                  |              |         |                  |          |    |                    |  |                               |                                      |  |                   |                      |
|                                  |                                 |                      |                           |                                       |                  |              |         |                  |          |    |                    |  |                               |                                      |  |                   |                      |
|                                  |                                 |                      |                           |                                       |                  |              |         |                  |          |    |                    |  |                               |                                      |  |                   |                      |

|   |             |  |                               |                                 |
|---|-------------|--|-------------------------------|---------------------------------|
| Shipment for Case Complete? (Y/N) <input checked="" type="checkbox"/> | Page 1 of 1 | Sample(s) to be Used for Laboratory QC | Additional Sampler Signatures | Chain of Custody Seal Number(s) |
|---|-------------|--|-------------------------------|---------------------------------|

CHAIN OF CUSTODY RECORD

|  |                              |   |                              |             |                                  |
|--|------------------------------|---|------------------------------|-------------|----------------------------------|
| Relinquished by: (Signature)<br>Carolyn Schwafel | Date / Time<br>10/12/98 1600 | Received by: (Signature)                | Relinquished by: (Signature) | Date / Time | Received by: (Signature)         |
| Relinquished by: (Signature)                     | Date / Time                  | Received by: (Signature)                | Relinquished by: (Signature) | Date / Time | Received by: (Signature)         |
| Relinquished by: (Signature)                     | Date / Time                  | Received for Laboratory by: (Signature) | Date / Time                  | Remarks     | Is custody seal intact? Y/N/none |



United States Environmental Protection Agency  
Contract Laboratory Program

### Inorganic Traffic Report & Chain of Custody Record (For Inorganic CLP Analysis)

Case No.

26551

|   |              |   |  |  |                 |   |   |
|---|--------------|---|--|--|-----------------|---|---|
| 1. Project Code<br>DW96147722-01-3        | Account Code | 2. Region No.<br>VI   | Sampling Co.<br>USACE - Omaha District | 4. Date Shipped<br>10/15/98  | Carrier<br>FEDX | 6. Matrix<br>(Enter in Column A)<br><br>1. Surface Water<br>2. Ground Water<br>3. Leachate<br>4. Field QC<br>5. Soil/Sediment<br>6. Oil (High only)<br>7. Waste (High only)<br>8. Other (specify in Column A) | 7. Preservative<br>(Enter in Column D)<br><br>1. HCl<br>2. HNO3<br>3. NaOH<br>4. H2SO4<br>5. K2Cr2O7<br>6. Ice only<br>7. Other (specify in Column D)<br>N. Not preserved |
| Regional Information                      |              | 3. Sampler (Name)<br>Cawlyn Schwafel  |  | Airbill Number<br>801496295803   |                 |   |   |
| Non-Superfund Program                     |              | Sampler Signature<br>Cawlyn Schwafel  |  | 5. Ship To<br>DataChem Laboratories<br>960 West LeVoy Dr<br>Salt Lake City, UT 84123 |                 |   |   |
| Site Name<br>HIMCO DUMP<br>SUPERFUND SITE |              | 3. Purpose*<br>Early Action: CLEM, PA, REM, RI, SI, ES<br>Long-Term Action: FS, RD, RA, O&M, NPLD |  | ATTN: Richard Wiele  |                 |   |   |
| City, State<br>EIKHART, IN                |              | Site Spill ID<br>4J   |  |  |                 |   |   |

| CLP Sample Numbers (from labels) | A Matrix (from Box 6)<br>Other: | B Conc. Low Med High | C Sample Type: Comp./Grab | D Preservative (from Box 7)<br>Other: | E - RAS Analysis |              |         |         |                      |                 |          | F Regional Specific Tracking Number or Tag Numbers | G Station Location Identifier | H Mo/Day/Year/Time Sample Collection | I Corresponding CLP Organic Sample No. | J Sampler Initials | K Field QC Qualifier |   |
|----------------------------------|---------------------------------|----------------------|---------------------------|---------------------------------------|------------------|--------------|---------|---------|----------------------|-----------------|----------|--|-------------------------------|--------------------------------------|--|--------------------|----------------------|---|
|                                  |                                 |                      |                           |                                       | Dis. Metals      | Total Metals | Cyanide | NO2/NO3 | Low only<br>Fluoride | High only<br>pH | Conduct. |  |                               |                                      |  |                    |                      |   |
| MEBRD3                           | S                               | L                    | C                         | 6                                     |                  | X            | X       |         |                      |                 |          |  | 5-145233, 5-145232            | SB16-6                               | 10/15/98/145                           | ECMK6              | CAS                  | — |
| MEBRD4                           | S                               | L                    | C                         | 6                                     |                  | X            | X       |         |                      |                 |          |  | 5-145234, 5-145233            | SB16-60                              | 10/15/98/145                           | ECMK7              | CAS                  | D |

|   |             |  |                               |                                 |
|---|-------------|--|-------------------------------|---------------------------------|
| Shipment for Case Complete? (Y/N) <input checked="" type="checkbox"/> | Page 2 of 2 | Sample(s) to be Used for Laboratory QC | Additional Sampler Signatures | Chain of Custody Seal Number(s) |
|---|-------------|--|-------------------------------|---------------------------------|

#### CHAIN OF CUSTODY RECORD

|   |                              |   |                              |             |                                  |
|---|------------------------------|---|------------------------------|-------------|----------------------------------|
| Relinquished by: (Signature)<br>Cawlyn Schwafel | Date / Time<br>10/15/98/1700 | Received by: (Signature)                | Relinquished by: (Signature) | Date / Time | Received by: (Signature)         |
| Relinquished by: (Signature)                    | Date / Time                  | Received by: (Signature)                | Relinquished by: (Signature) | Date / Time | Received by: (Signature)         |
| Relinquished by: (Signature)                    | Date / Time                  | Received for Laboratory by: (Signature) | Date / Time                  | Remarks     | Is custody seal intact? Y/N/none |

DISTRIBU

Green - Region Copy  
White - Lab Copy for Return to Region

Pink - CLASS Copy  
Yellow - Lab Copy for Return to CLP

EPA Form 9110-1

SEE REVERSE FOR ADDITIONAL STANDARD INSTR. DIRECTIONS  
SEE REVERSE FOR PURPOSE CODE DEFINITIONS

438 01-2-98



**Inorganic Traffic Report  
& Chain of Custody Record**  
(For Inorganic CLP Analysis)

Case No.  
**26551**

|   |                             |  |   |  |                        |   |   |
|---|-----------------------------|--|---|--|------------------------|---|---|
| 1. Project Code<br><b>DW9694772<br/>01-3</b>      | Account Code                | 2. Region No.<br><b>V</b>  | Sampling Co.<br><b>USACE-Omaha<br/>District</b> | 4. Date Shipped<br><b>10/15/98</b>   | Carrier<br><b>FEDX</b> | 6. Matrix<br>(Enter in Column A)<br><br>1. Surface Water<br>2. Ground Water<br>3. Leachate<br>4. Field QC<br>5. Soil/Sediment<br>6. Oil (High only)<br>7. Waste (High only)<br>8. Other (specify in Column A) | 7. Preservative<br>(Enter in Column D)<br><br>1. HCl<br>2. HNO3<br>3. NaOH<br>4. H2SO4<br>5. K2CR2O7<br>6. Ice only<br>7. Other (specify in Column D)<br>N. Not preserved |
| Regional Information                              |                             | Sampler (Name)<br><b>Carolyn Schwafel</b>  |   | Airbill Number<br><b>801496295803</b>  |                        |   |   |
| Non-Superfund Program                             |                             | Sampler Signature<br><b>Carolyn Schwafel</b>   |   | 5. Ship To<br><b>Datachem Laboratories<br/>960 West LeVoy Dr.<br/>Salt Lake City, UT<br/>84123</b> |                        |   |   |
| Site Name<br><b>HIMCO DUMP<br/>SUPERFUND SITE</b> |                             | 3. Purpose:<br>Early Action: <input type="checkbox"/> CLEM, <input type="checkbox"/> PA, <input type="checkbox"/> REM, <input type="checkbox"/> RI, <input type="checkbox"/> SI, <input type="checkbox"/> ESI<br>Long-Term Action: <input checked="" type="checkbox"/> FFS, <input checked="" type="checkbox"/> IRD, <input type="checkbox"/> IRA, <input type="checkbox"/> O&M, <input type="checkbox"/> NPLD |   | ATTN: <b>Richard Wade</b>  |                        |   |   |
| City, State<br><b>Elkhart, IN</b>                 | Site Spill ID<br><b>4.5</b> |  |   |  |                        |   |   |

| CLP Sample Numbers (from labels) | A Matrix (from Box 6)<br>Other: | B Conc. Low Med High | C Sample Type: Comp./ Grab | D Preservative (from Box 7)<br>Other: | E - RAS Analysis |              |         |         |          |    |          | F Regional Specific Tracking Number or Tag Numbers | G Station Location Identifier | H Mo/Day/Year/Time Sample Collection | I Corresponding CLP Organic Sample No. | J Sampler Initials | K Field QC Qualifier<br><small>Blank, Spike, Duplicate, Perform Eval, Hold a QC Sample</small> |
|----------------------------------|---------------------------------|----------------------|----------------------------|---------------------------------------|------------------|--------------|---------|---------|----------|----|----------|--|-------------------------------|--------------------------------------|--|--------------------|--|
|                                  |                                 |                      |                            |                                       | Diss. Metals     | Total Metals | Cyanide | NO2/NO3 | Fluoride | PH | Conduct. |  |                               |                                      |  |                    |  |
| MEBQD4                           | 5                               | L                    | C                          | 6                                     | X                | X            |         |         |          |    |          | 5-φφ 5148, 5-φφ 5149                               | SB17-2                        | 10/15/98 1315                        | ECMJ58                                 | CAS                | —  |
| MEBQC9                           | 5                               | L                    | C                          | 6                                     | X                | X            |         |         |          |    |          | 5-φφ 5172, 5-φφ 5173                               | SB17-0.5                      | 10/15/98 1315                        | ECMJ57                                 | CAS                | —  |
| MEBQCL4                          | 5                               | L                    | C                          | 6                                     | X                | X            |         |         |          |    |          | 5-φφ 5140, 5-φφ 5141                               | SB20-2                        | 10/15/98 1315                        | ECMK4                                  | CAS                | —  |
| MEBQDZ                           | 5                               | L                    | C                          | 6                                     | X                | X            |         |         |          |    |          | 5-φφ 5178, 5-φφ 5179                               | SB16-2                        | 10/15/98 1415                        | ECMK5                                  | CAS                | —  |
| MEBQCL6                          | 5                               | L                    | C                          | 6                                     | X                | X            |         |         |          |    |          | 5-φφ 5157, 5-φφ 5158                               | SB19-0.5                      | 10/15/98 1000                        | ECMJ4                                  | CAS                | —  |
| MEBQD1                           | 5                               | L                    | C                          | 6                                     | X                | X            |         |         |          |    |          | 5-φφ 5117, 5-φφ 5185                               | SB16-0.5                      | 10/15/98 1400                        | ECMJ59                                 | CAS                | —  |
| MEBQC7                           | 5                               | L                    | C                          | 6                                     | X                | X            |         |         |          |    |          | 5-φφ 5159, 5-φφ 5160                               | SB19-2                        | 10/15/98 1015                        | ECMJ55                                 | CAS                | —  |
| MEBQCB                           | 5                               | L                    | C                          | 6                                     | X                | X            |         |         |          |    |          | 5-φφ 5167, 5-φφ 5168                               | SB19-6                        | 10/15/98 1030                        | ECMJ56                                 | CAS                | —  |
| MEBQCB3                          | 5                               | L                    | C                          | 6                                     | X                | X            |         |         |          |    |          | 5-φφ 5266, 5-φφ 5265                               | SB20-0.5                      | 10/15/98 0800                        | ECMK4                                  | CAS                | —  |
| MEBQC5                           | 5                               | L                    | C                          | 6                                     | X                | X            |         |         |          |    |          | 5-φφ 5145, 5-φφ 5142                               | SB20-6                        | 10/15/98 1830                        | ECMK1                                  | CAS                | —  |

|  |                           |  |                               |                                 |
|--|---------------------------|--|-------------------------------|---------------------------------|
| Shipment for Case Complete? (Y/N) <b>(Y)</b> | Page <b>1</b> of <b>2</b> | Sample(s) to be Used for Laboratory QC | Additional Sampler Signatures | Chain of Custody Seal Number(s) |
|--|---------------------------|--|-------------------------------|---------------------------------|

**CHAIN OF CUSTODY RECORD**

|   |                                     |   |                              |             |                                  |
|---|-------------------------------------|---|------------------------------|-------------|----------------------------------|
| Relinquished by: (Signature)<br><b>Carolyn Schwafel</b> | Date / Time<br><b>10/15/98 1100</b> | Received by: (Signature)                | Relinquished by: (Signature) | Date / Time | Received by: (Signature)         |
| Relinquished by: (Signature)                            | Date / Time                         | Received by: (Signature)                | Relinquished by: (Signature) | Date / Time | Received by: (Signature)         |
| Relinquished by: (Signature)                            | Date / Time                         | Received for Laboratory by: (Signature) | Date / Time                  | Remarks     | Is custody seal intact? Y/N/none |



United States Environmental Protection Agency  
Contract Laboratory Program

**Organic Traffic Report  
& Chain of Custody Record**  
(For Organic CLP Analysis)

Case No.

26551

|  |  |                                      |                               |  |                 |   |                    |
|--|--|--------------------------------------|-------------------------------|--|-----------------|---|--------------------|
| 1. Matrix (Enter in Column A)<br>1. Surface Water<br>2. Ground Water<br>3. Leachate<br>4. Field OC<br>5. Soil/Sediment<br>6. Oil (High only)<br>7. Waste (High only)<br>8. Other (Specify in Column A) | 2. Preservative (Enter in Column D)<br>1. HCl<br>2. HNO3<br>3. NaHSO4<br>4. H2SO4<br>5. Ice only<br>6. Other (Specify in Column D)<br>N. Not preserved | 2. Region No.<br>5                   | Sampling Co.<br>USACE-DIV 224 | 4. Date Shipped<br>10/15/98  | Carrier<br>FEDX | 6. Date Received -- Received by:<br>10/20/98 Alice Evans    |                    |
|  |  | Sampler (Name)<br>Caroun Schwafel    |                               | Airbill Number<br>7222748234   |                 | Laboratory Contract Number<br>68050009                      | Unit Price<br>805- |
|  |  | Sampler Signature<br>Caroun Schwafel |                               | 5. Ship To<br>CompuChem Environmental Corp<br>501 Madison Ave<br>Cary, NC 27513<br>ATTN: Alice Evans |                 | 7. Transfer to:<br>Received by:<br>Contract Number<br>Price |                    |

| CLP Sample Numbers (from labels) | A Matrix (from Box 1)<br>Other | B Conc. Low Med High | C Sample Type Comp. Grab | D Preservative (from Box 2)<br>Other | E RAS Analysis |     |         |           |                    | F Regional Specific Tracking Number or Tag Numbers | G Station Location Identifier | H Mo/Day/Year/Time Sample Collection | I Corresponding CLP Inorganic Sample No. | J Sampler Initials | K High Phases |                    |                |
|----------------------------------|--------------------------------|----------------------|--------------------------|--------------------------------------|----------------|-----|---------|-----------|--------------------|--|-------------------------------|--------------------------------------|--|--------------------|---------------|--------------------|----------------|
|                                  |                                |                      |                          |                                      | VOA            | BNA | PAH/POB | High only | ARO/TOX            |  |                               |                                      |  |                    | Solids        | Water-Miscible Lq. | Water-Imm. Lq. |
| ECM17                            | 5                              | L                    | G                        | 5                                    | X              |     |         |           | 5-005169           | 5-005170   | SB17-0.5                      | 10/15/98 1315                        | MEFLD9                                   | AKR                |               |                    |                |
| ECM17                            | 5                              | L                    | C                        | 5                                    |                | X   |         |           | 5-005171           |  | SB17-0.5                      | 10/15/98 1315                        | MEFLD9                                   | AKR                |               |                    |                |
| ECM18                            | 5                              | L                    | G                        | 5                                    | X              |     |         |           | 5-005176, 5-005175 |  | SB17-2                        | 10/15/98 1325                        | MEFLD9                                   | AKR                |               |                    |                |
| ECM18                            | 5                              | L                    | C                        | 5                                    |                | X   |         |           | 5-005147           |  | SB17-2                        | 10/15/98 1325                        | MEFLD9                                   | AKR                |               |                    |                |
| 915072<br>915073                 |                                |                      |                          |                                      |                |     |         |           |                    |  |                               |                                      |  |                    |               |                    |                |

ORIGINAL

|                                   |                |  |                               |                                 |
|-----------------------------------|----------------|--|-------------------------------|---------------------------------|
| Shipment for Case Complete? (Y/N) | Page<br>3 of 3 | Sample(s) to be Used for Laboratory QC | Additional Sampler Signatures | Chain of Custody Seal Number(s) |
|-----------------------------------|----------------|--|-------------------------------|---------------------------------|

CHAIN OF CUSTODY RECORD

|   |                              |  |                              |   |                                   |
|---|------------------------------|--|------------------------------|---|-----------------------------------|
| Relinquished by: (Signature)<br>Caroun Schwafel | Date / Time<br>10/15/98 1700 | Received by: (Signature)                               | Relinquished by: (Signature) | Date / Time   | Received by: (Signature)<br>10055 |
| Relinquished by: (Signature)                    | Date / Time                  | Received by: (Signature)                               | Relinquished by: (Signature) | Date / Time   | Received by: (Signature)          |
| Relinquished by: (Signature)<br>Alice Evans     | Date / Time                  | Received for Laboratory by: (Signature)<br>Alice Evans | Date / Time<br>10/20/98 9:30 | Remarks<br>SHIPMENT SENT TO COMPU-CHEM ON 10/20/98<br>Cooler # C98-1148 8°C |                                   |

381310

2010-12-18 REV



United States Environmental Protection Agency  
Contract Laboratory Program

**Chain of Custody Record**  
(For Organic CLP Analysis)

Case No. 3055

|  |  |   |  |   |                     |   |                        |       |
|--|--|---|--|---|---------------------|---|------------------------|-------|
| 1. Matrix (Enter in Column A)<br>1. Surface Water<br>2. Ground Water<br>3. Leachate<br>4. Field OC<br>5. Soil/Sediment<br>6. Oil (High only)<br>7. Waste (High only)<br>8. Other (Specify in Column A) | 2. Preservative (Enter in Column D)<br>1. HCl<br>2. HNO3<br>3. NaHSO4<br>4. H2SO4<br>5. Ice only<br>6. Other (Specify in Column D)<br>N. Not preserved | 2. Region No. <u>V</u>  | Sampling Co. <u>USACE - Omaha District</u> | 4. Date Shipped <u>10/15/98</u>   | Carrier <u>FEDX</u> | 6. Date Received -- Received by:<br><u>10/20/98 Alice Evans</u> |                        |       |
|  |  | Sampler (Name) <u>Cawanna Schwafel</u>  |  | Airbill Number <u>7222748234</u>  |                     | Laboratory Contract Number <u>68D50009</u>                      | Unit Price <u>805-</u> |       |
|  |  | Sampler Signature <u>Alice Evans</u>  |  | 5. Ship To <u>CompuChem Environmental Corp<br/>501 Madison Ave<br/>Cary, NC 27513<br/>ATTN: Alice Evans</u>   |                     | Transfer to:  | Date Received          |       |
| 3. Purpose: <input checked="" type="checkbox"/> SF <input type="checkbox"/> PRP <input type="checkbox"/> ST <input type="checkbox"/> FED   |  | Early Action: <input type="checkbox"/> CLEM <input type="checkbox"/> PA <input type="checkbox"/> REM <input type="checkbox"/> RI <input type="checkbox"/> SI <input type="checkbox"/> ESI |  | Long-Term Action: <input type="checkbox"/> FS <input type="checkbox"/> RD <input checked="" type="checkbox"/> RA <input type="checkbox"/> O&M <input type="checkbox"/> NPLO |                     | Received by:  | Contract Number        | Price |

| CLP Sample Numbers (from labels) | A Matrix (from Box 1)<br>Other | B Conc. Low Med High | C Sample Type: Comp. Grab | D Preservative (from Box 2)<br>Other | E RAS Analysis |     |         |                   | F Regional Specific Tracking Number or Tag Numbers | G Station Location Identifier | H Mo/Day/Year/Time Sample Collection | I Corresponding CLP Inorganic Sample No. | J Sampler Initials | K High Phases |                     |                 |
|----------------------------------|--------------------------------|----------------------|---------------------------|--------------------------------------|----------------|-----|---------|-------------------|--|-------------------------------|--------------------------------------|--|--------------------|---------------|---------------------|-----------------|
|                                  |                                |                      |                           |                                      | VOA            | BNA | Pos/POB | High only ARO/TOX |  |                               |                                      |  |                    | Solids        | Water-Miscible Liq. | Water-Imm. Liq. |
| ECM12                            | S                              | L                    | C                         | S                                    |                | X   |         |                   | 5-005209   | SB16-6                        | 10/15/98 1425                        | ME8003                                   | CE                 |               |                     |                 |
| FEMK6                            | S                              | L                    | G                         | S                                    | X              | X   |         |                   | 5-005183 5-005184                                  | SB16-6                        | 10/15/98 1425                        | ME8003                                   | CE                 |               |                     |                 |
| ECM15                            | S                              | L                    | G                         | S                                    | X              |     |         |                   | 5-005161 5-005162                                  | SB19-2                        | 10/15/98 1425                        | ME8007                                   | CE                 |               |                     |                 |
| ECM15                            | S                              | L                    | C                         | S                                    |                | X   |         |                   | 5-005163   | SB19-2                        | 10/15/98 1425                        | ME8007                                   | CE                 |               |                     |                 |
| FEM16                            | S                              | L                    | G                         | S                                    | X              |     |         |                   | 5-005166 5-005165                                  | SB19-6                        | 10/15/98 1425                        | ME8008                                   | CE                 |               |                     |                 |
| ECM16                            | S                              | L                    | C                         | S                                    |                | X   |         |                   | 5-005164   | SB19-6                        | 10/15/98 1425                        | ME8008                                   | CE                 |               |                     |                 |
| ECM19                            | S                              | L                    | G                         | S                                    | X              |     |         |                   | 5-005152 5-005151                                  | SB16-0.5                      | 10/15/98 1400                        | ME8001                                   | CE                 |               |                     |                 |
| ECM19                            | S                              | L                    | C                         | S                                    |                | X   |         |                   | 5-005153   | SB16-0.5                      | 10/15/98 1400                        | ME8001                                   | CE                 |               |                     |                 |
| ECM14                            | S                              | L                    | C                         | S                                    |                | X   |         |                   | 5-005154   | SB19-0.5                      | 10/15/98 1000                        | ME8006                                   | CE                 |               |                     |                 |
| ECM14                            | S                              | L                    | C                         | S                                    |                | X   |         |                   | 5-005156 5-005155                                  | SB19-0.5                      | 10/15/98 1000                        | ME8006                                   | CE                 |               |                     |                 |

Shipment for Case Complete? (Y/N) (Y) Page 2 of 3 ORIGINAL  
 Additional Sampler Signatures \_\_\_\_\_ Chain of Custody Seal Number(s) 915079

**CHAIN OF CUSTODY RECORD**

|   |                                  |   |   |                                  |  |
|---|----------------------------------|---|---|----------------------------------|--|
| Relinquished by: (Signature) <u>Alice Evans</u> | Date / Time <u>10/15/98 1700</u> | Received by: (Signature) _____                            | Relinquished by: (Signature) _____  | Date / Time _____                | Received by: (Signature) <u>110056</u> |
| Relinquished by: (Signature) _____              | Date / Time _____                | Received by: (Signature) <u>Alice Evans</u>               | Relinquished by: (Signature) _____  | Date / Time <u>10/20/98 9:30</u> | Received by: (Signature) _____         |
| Relinquished by: (Signature) _____              | Date / Time _____                | Received for Laboratory by: (Signature) <u>Jane Smith</u> | Remarks: Is custody seal intact? <u>Y/N</u> None<br>SHIPMENT SENT TO COMPUCHEM ON 10/20/98<br>DCL Cooler # C98-1148 8°C |                                  |  |

901 P. SUNDOWN T.C.R. ON T.C. NUM



United States Environmental Protection Agency  
Contract Laboratory Program

### Organic Traffic Report & Chain of Custody Record (For Organic CLP Analysis)

Case No. 2655

|  |  |   |   |   |                            |
|--|--|---|---|---|----------------------------|
| <b>1. Matrix</b><br>(Enter in Column A)<br><br>1. Surface Water<br>2. Ground Water<br>3. Leachate<br>4. Field QC<br>5. Soil/Sediment<br>6. Oil (High only)<br>7. Waste (High only)<br>8. Other (Specify in Column A)   | <b>2. Preservative</b><br>(Enter in Column D)<br><br>1. HCl<br>2. HNO3<br>3. NaHSO4<br>4. H2SO4<br>5. Ice only<br>6. Other (Specify in Column D)<br>N. Not preserved | <b>2. Region No./Sampling Co.</b><br>5 USACE - Omaha District | <b>4. Date Shipped</b> 10/12/98<br><b>Carrier</b> FEDX  | <b>6. Date Received -- Received by:</b><br>10/13/98 Alice Evans |                            |
|  |  | <b>Sampler (Name)</b><br>Carolyn Schwafel                     | <b>Airbill Number</b><br>803170008122   | <b>Laboratory Contract Number</b><br>64050009                   | <b>Unit Price</b><br>\$85- |
|  |  | <b>Sampler Signature</b><br><i>Carolyn Schwafel</i>           | <b>5. Ship To</b><br>Compu Chem Environmental Corporation<br>501 Madison Ave<br>Cary, NC 27513<br>ATTN: Alice Evans | <b>7. Transfer to:</b><br>Received by:                          | <b>Date Received</b>       |
| <b>3. Purpose</b><br>Early Action: <input checked="" type="checkbox"/> SF, <input checked="" type="checkbox"/> PRP, <input type="checkbox"/> ST, <input type="checkbox"/> FED<br>Long-Term Action: <input type="checkbox"/> CLEM, <input type="checkbox"/> PA, <input type="checkbox"/> REM, <input type="checkbox"/> RI, <input type="checkbox"/> SI, <input type="checkbox"/> ESI, <input type="checkbox"/> FS, <input checked="" type="checkbox"/> RD, <input type="checkbox"/> RA, <input type="checkbox"/> O&M, <input type="checkbox"/> NPLD |  | <b>Contract Number</b>  |   | <b>Price</b>  |                            |

| CLP Sample Numbers (from labels)        | A Matrix (from Box 1) | B Conc. Low Med High | C Sample Type: Comp. Grab | D Preservative (from Box 2) | E RAS Analysis |     |          |                    | F Regional Specific Tracking Number or Tag Numbers | G Station Location Identifier | H Mo/Day/Year/Time Sample Collection | I Corresponding CLP Inorganic Sample No. | J Sampler Initials | K High Phrases |              |       |             |
|---|-----------------------|----------------------|---------------------------|-----------------------------|----------------|-----|----------|--------------------|--|-------------------------------|--------------------------------------|--|--------------------|----------------|--------------|-------|-------------|
|   |                       |                      |                           |                             | VOA            | BNA | Pest/PCB | High only          |  |                               |                                      |  |                    | Water          | Microb. Lig. | Water | Inmic. Lig. |
| ECM22                                   | 5                     | L                    | G                         | 5                           | X              |     |          | 5-005373, 5-005372 | S603-0.5   | 10/15/98 1345                 | MEB001                               | CAS                                      |                    |                |              |       |             |
| ECM22                                   | 5                     | L                    | C                         | 5                           |                | X   |          | 5-005374           | S603-0.5   | 10/15/98 1345                 | MEB001                               | CAS                                      |                    |                |              |       |             |
| ECM23                                   | 5                     | L                    | G                         | 5                           | X              |     |          | 5-005370, 5-005371 | S603-2   | 10/15/98 1345                 | MEB002                               | CAS                                      |                    |                |              |       |             |
| ECM23                                   | 5                     | L                    | C                         | 5                           |                | X   |          | 5-005223           | S603-2   | 10/15/98 1345                 | MEB002                               | CAS                                      |                    |                |              |       |             |
| 914029<br>914034<br><br><b>ORIGINAL</b> |                       |                      |                           |                             |                |     |          |                    |  |                               |                                      |  |                    |                |              |       |             |

|   |             |  |                               |                                 |
|---|-------------|--|-------------------------------|---------------------------------|
| Shipment for Case Complete? (Y/N) <input checked="" type="checkbox"/> | Page 1 of 1 | Sample(s) to be Used for Laboratory QC | Additional Sampler Signatures | Chain of Custody Seal Number(s) |
|---|-------------|--|-------------------------------|---------------------------------|

**CHAIN OF CUSTODY RECORD**

|   |                              |   |                              |             |   |
|---|------------------------------|---|------------------------------|-------------|---|
| Relinquished by: (Signature)<br><i>Carolyn Schwafel</i> | Date / Time<br>10/12/98 1600 | Received by: (Signature)                                      | Relinquished by: (Signature) | Date / Time | Received by: (Signature)<br>10054   |
| Relinquished by: (Signature)                            | Date / Time                  | Received by: (Signature)                                      | Relinquished by: (Signature) | Date / Time | Received by: (Signature)  |
| Relinquished by: (Signature)                            | Date / Time                  | Received for Laboratory by: (Signature)<br><i>Alice Evans</i> | Date / Time<br>10/13/98 8:45 | Remarks     | Is custody seal intact? <input checked="" type="checkbox"/> Y/N/none<br>Incorrect sample collection. 40 date on Traffic Report. Tags are correct 10/13/98 |



United States Environmental Protection Agency  
Contract Laboratory Program

Inorganic Traffic Report  
& Chain of Custody Record  
(For Inorganic CLP Analysis)

Case No.

26593

|                                   |              |   |  |  |                  |   |   |
|-----------------------------------|--------------|---|--|--|------------------|---|---|
| 1. Project Code                   | Account Code | 2. Region No.<br>V  | Sampling Co.<br>USNCE - Omaha District | 4. Date Shipped<br>10/19/98  | Carrier<br>FEDEX | 6. Matrix<br>(Enter in Column A)<br><br>1. Surface Water<br>2. Ground Water<br>3. Leachate<br>4. Field QC<br>5. Soil/Sediment<br>6. Oil (High only)<br>7. Waste (High only)<br>8. Other (specify in Column A) | 7. Preservative<br>(Enter in Column D)<br><br>1. HCl<br>2. HNO3<br>3. NaOH<br>4. H2SO4<br>5. K2CR2O7<br>6. Ice only<br>7. Other (specify in Column D)<br>N. Not preserved |
| Regional Information              |              | Sampler (Name)<br>Carolyn Schwafel  |  | Airbill Number<br>7222748256   |                  |   |   |
| Non-Superfund Program             |              | Sampler Signature<br>Carolyn Schwafel   |  | 5. Ship To<br>SVL Analytical, Inc<br>One Government Gulch<br>Kellogg, ID 83837 |                  |   |   |
| Site Name<br>HIMCO DUMP SUPERFUND |              | 3. Purpose*<br>Lead: <input checked="" type="checkbox"/> SF<br><input type="checkbox"/> PRP<br><input type="checkbox"/> ST<br><input type="checkbox"/> FED<br>Early Action: <input type="checkbox"/> CLEM<br><input type="checkbox"/> PA<br><input type="checkbox"/> REM<br><input type="checkbox"/> RI<br><input type="checkbox"/> SI<br><input type="checkbox"/> ESI<br>Long-Term Action: <input checked="" type="checkbox"/> FS<br><input type="checkbox"/> RD<br><input type="checkbox"/> RA<br><input type="checkbox"/> O&M<br><input type="checkbox"/> NPLD |  | ATTN: Carol Williams   |                  |   |   |
| City, State<br>ELKHART, IN        |              | Site Spill ID<br>4J   |  |  |                  |   |   |

| CLP Sample Numbers (from labels) | A Matrix (from Box 6)<br>Other: | B Conc. Low Med High | C Sample Type: Comp./ Grab | D Preservative (from Box 7)<br>Other: | E - RAS Analysis |              |         |                  |          |              |          | F Regional Specific Tracking Number or Tag Numbers | G Station Location Identifier | H Mo/Day/ Year/Time Sample Collection | I Corresponding CLP Organic Sample No. | J Sampler Initials | K Field QC Qualifier<br><small>B = Blank S = Spike<br/>D = Duplicate<br/>R = Retest<br/>PE = Perform Eval<br/>= Not a QC Sample</small> |
|----------------------------------|---------------------------------|----------------------|----------------------------|---------------------------------------|------------------|--------------|---------|------------------|----------|--------------|----------|--|-------------------------------|---------------------------------------|--|--------------------|---|
|                                  |                                 |                      |                            |                                       | Dis. Metals      | Total Metals | Cyanide | Low only NO2/NO3 | Fluoride | High only PH | Conduct. |  |                               |                                       |  |                    |   |
| MEBQE2                           | 5                               | L                    | C                          | 6                                     | X                | X            |         |                  |          |              |          | 5-φφ5241, 5-φφ5242                                 | SB05-2                        | 10/19/98 1045                         | ECML5                                  | CAS                | -   |
| MEBQE6                           | 5                               | L                    | C                          | 6                                     | X                | X            |         |                  |          |              |          | 5-φφ52φ3, 5-φφ5275                                 | SB06-0.5                      | 10/19/98 1400                         | ECML9                                  | CAS                | -   |
| MEBQE7                           | 5                               | L                    | C                          | 6                                     | X                | X            |         |                  |          |              |          | 5-φφ52φ7, 5-φφ52φ8                                 | SB06-10                       | 10/19/98 1400                         | ECMM6                                  | CAS                | -   |
| MEBQE4                           | 5                               | L                    | C                          | 6                                     | X                | X            |         |                  |          |              |          | 5-φφ5245, 5-φφ5246                                 | SB06-2                        | 10/19/98 1415                         | ECMM7                                  | CAS                | -   |
| MEBQE3                           | 5                               | L                    | C                          | 6                                     | X                | X            |         |                  |          |              |          | 5-φφ5354, 5-φφ5353                                 | SB04-0.5                      | 10/19/98 1230                         | ECML6                                  | CAS                | -   |
| MEBQE4                           | 5                               | L                    | C                          | 6                                     | X                | X            |         |                  |          |              |          | 5-φφ5324, 5-φφ5325                                 | SB04-2                        | 10/19/98 1245                         | ECML7                                  | CAS                | -   |
| MEBQCS                           | 5                               | L                    | C                          | 6                                     | X                | X            |         |                  |          |              |          | 5-φφ5327, 5-φφ533φ                                 | SB04-6                        | 10/19/98 1300                         | ECML8                                  | CAS                | -   |

|   |             |  |                               |                                 |
|---|-------------|--|-------------------------------|---------------------------------|
| Shipment for Case Complete? (Y/N) <input checked="" type="checkbox"/> N | Page 1 of 1 | Sample(s) to be Used for Laboratory QC | Additional Sampler Signatures | Chain of Custody Seal Number(s) |
|---|-------------|--|-------------------------------|---------------------------------|

CHAIN OF CUSTODY RECORD

|  |                              |   |                              |             |                                  |
|--|------------------------------|---|------------------------------|-------------|----------------------------------|
| Relinquished by: (Signature)<br>Carolyn Schwafel | Date / Time<br>10/19/98 1930 | Received by: (Signature)                | Relinquished by: (Signature) | Date / Time | Received by: (Signature)         |
| Relinquished by: (Signature)                     | Date / Time                  | Received by: (Signature)                | Relinquished by: (Signature) | Date / Time | Received by: (Signature)         |
| Relinquished by: (Signature)                     | Date / Time                  | Received for Laboratory by: (Signature) | Date / Time                  | Remarks     | Is custody seal intact? Y/N/none |



United States Environmental Protection Agency  
Contract Laboratory Program

### Inorganic Traffic Report & Chain of Custody Record (For Inorganic CLP Analysis)

Case No.

26593

|   |                     |   |  |  |                  |   |   |
|---|---------------------|---|--|--|------------------|---|---|
| 1. Project Code                           | Account Code        | 2. Region No.   | Sampling Co.<br>USA-E-Orville<br>District  | 4. Date Shipped<br>10/19/98  | Carrier<br>FEDEX | 6. Matrix<br>(Enter in Column A)<br><br>1. Surface Water<br>2. Ground Water<br>3. Leachate<br>4. Field QC<br>5. Soil/Sediment<br>6. Oil (High only)<br>7. Waste (High only)<br>8. Other (specify in Column A) | 7. Preservative<br>(Enter in Column D)<br><br>1. HCl<br>2. HNO3<br>3. NaOH<br>4. H2SO4<br>5. K2CR2O7<br>6. Ice only<br>7. Other (specify in Column D)<br>N. Not preserved |
| Regional Information                      |                     | Sampler (Name)<br>Carolyn Schwafel  |  | Airbill Number<br>7222748260   |                  |   |   |
| Non-Superfund Program                     |                     | Sampler Signature<br>Carolyn Schwafel   |  | 5. Ship To<br>SVL Analytical, Inc<br>One Government Gulch<br>Kellogg, ID 83837   |                  |   |   |
| Site Name<br>HIMCO DUMP<br>SUPERFUND SITE |                     | 3. Purpose  |  | ATTN: Carol Williams   |                  |   |   |
| City, State<br>ELKHART, IN                | Site Spill ID<br>4J | Lead<br><input checked="" type="checkbox"/> SF<br><input type="checkbox"/> PRP<br><input type="checkbox"/> ST<br><input type="checkbox"/> FED | Early Action<br><input type="checkbox"/> CLEM<br><input type="checkbox"/> PA<br><input type="checkbox"/> REM<br><input type="checkbox"/> RI<br><input type="checkbox"/> SI<br><input type="checkbox"/> ESI | Long Term Action<br><input checked="" type="checkbox"/> FS<br><input type="checkbox"/> RA<br><input type="checkbox"/> O&M<br><input type="checkbox"/> NPLD |                  |   |   |

| CLP Sample Numbers (from labels) | A Matrix (from Box 6)<br>Other: | B Conc. Low Med High | C Sample Type: Comp./ Grab | D Preservative (from Box 7)<br>Other: | E - RAS Analysis |              |         |         |          |          |           | F Regional Specific Tracking Number or Tag Numbers | G Station Location Identifier | H Mo/Day/Year/Time Sample Collection | I Corresponding CLP Organic Sample No. | J Sampler Initials | K Field QC Qualifier |
|----------------------------------|---------------------------------|----------------------|----------------------------|---------------------------------------|------------------|--------------|---------|---------|----------|----------|-----------|--|-------------------------------|--------------------------------------|--|--------------------|----------------------|
|                                  |                                 |                      |                            |                                       | Diss. Metals     | Total Metals | Cyanide | NO2/NO3 | Low only | Fluoride | High only |  |  |  |  |  |  | pH | Conduct. |
| MEBQD8                           | 5                               | L                    | C                          | 6                                     | X                | X            |         |         |          |          |           | 5-φφ5284, 5-φφ5384                                 | SB18-0.5                      | 10/19/98 0920                        | ECML1                                  | CAS                | —                    |
| MEBQD9                           | 5                               | L                    | C                          | 6                                     | X                | X            |         |         |          |          |           | 5-φφ5392, 5-φφ5391                                 | SB18-2                        | 10/19/98 0919                        | ECML2                                  | CAS                | —                    |
| MEBQEφ                           | 5                               | L                    | C                          | 6                                     | X                | X            |         |         |          |          |           | 5-φφ5396, 5-φφ5397                                 | SB18-6                        | 10/19/98 1932                        | ECML3                                  | CAS                | —                    |
| MEBQD5                           | 5                               | L                    | C                          | 6                                     | X                | X            |         |         |          |          |           | 5-φφ5277, 5-φφ5278                                 | SB15-0.5                      | 10/19/98 0810                        | ECMK8                                  | CAS                | —                    |
| MEBQD6                           | 5                               | L                    | C                          | 6                                     | X                | X            |         |         |          |          |           | 5-φφ5279, 5-φφ5280                                 | SB15-2                        | 10/19/98 0815                        | ECMK9                                  | CAS                | —                    |
| MEBQD7                           | 5                               | L                    | C                          | 6                                     | X                | X            |         |         |          |          |           | 5-φφ5272, 5-φφ5271                                 | SB15-6                        | 10/19/98 0830                        | ECMLφ                                  | CAS                | —                    |
| MEBQCI                           | 5                               | L                    | C                          | 6                                     | X                | X            |         |         |          |          |           | 5-φφ5382, 5-φφ5195, 5-φφ5381, 5-φφ5196             | SB05-0.5                      | 10/19/98 1030                        | ECML4                                  | CAS                | —                    |
| MEBREI                           | 5                               | L                    | C                          | 6                                     | X                | X            |         |         |          |          |           | 5-φφ5381, 5-φφ5196                                 | SB05-0.5                      | 10/19/98 1030                        | ECML4                                  | CAS                | S                    |

|                                   |                |  |                               |                                 |
|-----------------------------------|----------------|--|-------------------------------|---------------------------------|
| Shipment for Case Complete? (Y/N) | Page<br>1 of 1 | Sample(s) to be Used for Laboratory QC<br>5-φφ5381, 5-φφ5196 | Additional Sampler Signatures | Chain of Custody Seal Number(s) |
|-----------------------------------|----------------|--|-------------------------------|---------------------------------|

#### CHAIN OF CUSTODY RECORD

|                              |             |   |                              |             |                                  |
|------------------------------|-------------|---|------------------------------|-------------|----------------------------------|
| Relinquished by: (Signature) | Date / Time | Received by: (Signature)                | Relinquished by: (Signature) | Date / Time | Received by: (Signature)         |
| Relinquished by: (Signature) | Date / Time | Received by: (Signature)                | Relinquished by: (Signature) | Date / Time | Received by: (Signature)         |
| Relinquished by: (Signature) | Date / Time | Received for Laboratory by: (Signature) | Date / Time                  | Remarks     | Is custody seal intact? Y/N/none |

DISTRIBUTION

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White - Lab Copy for Return to Region

CLASS Copy  
Yellow - Lab Copy for Return to CLASS

EPA Form 911

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SEE REVERSE FOR PURPOSE CODE DEFINITIONS

REV 12/93



United States Environmental Protection Agency  
Contract Laboratory Program

**Chain of Custody Record**  
(For Organic CLP Analysis)

Case No.

26593

|                                   |              |                                      |                                     |   |                  |   |   |
|-----------------------------------|--------------|--------------------------------------|-------------------------------------|---|------------------|---|---|
| 1. Project Code                   | Account Code | 2. Region No.<br>VI                  | Sampling Co.<br>USACE-Cmb. District | 4. Date Shipped<br>10/19/98   | Carrier<br>FEDEX | 6. Matrix<br>(Enter in Column A)<br><br>1. Surface Water<br>2. Ground Water<br>3. Leachate<br>4. Field QC<br>5. Soil/Sediment<br>6. Oil (High only)<br>7. Waste (High only)<br>8. Other (Specify in Column A) | 7. Preservative<br>(Enter in Column D)<br><br>1. HCl<br>2. HNO3<br>3. NaHSO4<br>4. H2SO4<br>5. Ice only<br>6. Other (Specify in Column D)<br>N. Not preserved |
| Regional Information              |              | Sampler (Name)<br>Carolyn Schwabe    |                                     | Airbill Number<br>7222748481  |                  |   |   |
| Non-Superfund Program             |              | Sampler Signature<br>Carolyn Schwabe |                                     | 5. Ship To<br>Indust. Environmental Analysts, INC, NJ<br>628 Route 10<br>Whippany, NJ 07981<br>ATTN: Dan Eden |                  |   |   |
| Site Name<br>HIMCO DUMP SUPERFUND |              | 3. Purpose*                          |                                     |   |                  |   |   |
| City, State<br>Elkhart, IN        |              | Site Spill ID<br>4J                  |                                     |   |                  |   |   |

| CLP Sample Numbers (from labels) | A Matrix (from Box 6)<br>Other: | B Conc.: Low Med High | C Sample Type: Comp. Grab | D Preservative (from Box 7)<br>Other: | E RAS Analysis |     |     |                   | F Regional Specific Tracking Number or Tag Numbers | G Station Location Identifier | H Mo/Day/Year/Time Sample Collection | I Corresponding CLP Inorganic Sample No. | J Sampler Initials | K Field QC Qualifier<br>B = Blank S = Spike<br>D = Duplicate<br>R = Rinse<br>PE = Perform Eval<br>- = Not a QC Sample |
|----------------------------------|---------------------------------|-----------------------|---------------------------|---------------------------------------|----------------|-----|-----|-------------------|--|-------------------------------|--------------------------------------|--|--------------------|---|
|                                  |                                 |                       |                           |                                       | VOA            | BVA | PCB | High only ARO/TOX |  |                               |                                      |  |                    |   |
| ECML4                            | 5                               | L                     | GC                        | 5                                     | X              | X   |     |                   | 5-φφ52φφ, φφ5191, φφ5197                           | SB05-0.5                      | 10/19/98 1030                        | MEBQE1                                   | CS                 | -   |
| ECML4                            | 5                               | L                     | GC                        | 5                                     | X              | X   |     |                   | 5-φφ5378, φφ5380, φφ5383, φφ5319, φφ5197           | SB05-0.5                      | 10/19/98 1030                        | MEBQE1                                   | CS                 | S   |
| ECML9                            | 5                               | L                     | GC                        | 5                                     | X              | X   |     |                   | 5-φφ52φφ, 5-φφ542φ, 5-φφ52φφ                       | SB06-0.5                      | 10/19/98 1400                        | MEBQE6                                   | CS                 | -   |
| ECMM7                            | 5                               | L                     | GC                        | 5                                     | X              | X   |     |                   | 5-φφ5294, 5-φφ5293, 5-φφ5231                       | SB06-2                        | 10/19/98 1415                        | MEBQE4                                   | CS                 | -   |
| ECME6                            | 5                               | L                     | GC                        | 5                                     | X              | X   |     |                   | 5-φφ5355, 5-φφ5356, 5-φφ5357                       | SB04-0.5                      | 10/19/98 1230                        | MEBQE3                                   | CS                 | -   |
| ECML7                            | 5                               | L                     | GC                        | 5                                     | X              | X   |     |                   | 5-φφ5323, 5-φφ5359, 5-φφ5328                       | SB04-2                        | 10/19/98 1245                        | MEBQE4                                   | CS                 | -   |
| ECML8                            | 5                               | L                     | GC                        | 5                                     | X              | X   |     |                   | 5-φφ5328, 5-φφ5326, 5-φφ5327                       | SB04-6                        | 10/19/98 1300                        | MEBQE5                                   | CS                 | -   |

|                                   |                |  |                               |                                 |
|-----------------------------------|----------------|--|-------------------------------|---------------------------------|
| Shipment for Case Complete? (Y/N) | Page<br>1 of 1 | Sample(s) to be Used for Laboratory QC<br>5-φφ5378, 5-φφ5380, 5-φφ5383, 5-φφ5319, 5-φφ5197 | Additional Sampler Signatures | Chain of Custody Seal Number(s) |
|-----------------------------------|----------------|--|-------------------------------|---------------------------------|

**CHAIN OF CUSTODY RECORD**

|   |                              |   |                              |             |                                  |
|---|------------------------------|---|------------------------------|-------------|----------------------------------|
| Relinquished by: (Signature)<br>Carolyn Schwabe | Date / Time<br>10/19/98 1930 | Received by: (Signature)                | Relinquished by: (Signature) | Date / Time | Received by: (Signature)         |
| Relinquished by: (Signature)                    | Date / Time                  | Received by: (Signature)                | Relinquished by: (Signature) | Date / Time | Received by: (Signature)         |
| Relinquished by: (Signature)                    | Date / Time                  | Received for Laboratory by: (Signature) | Date / Time                  | Remarks     | Is custody seal intact? Y/N/none |

A21-012-15 REV



United States Environmental Protection Agency  
Contract Laboratory Program

**Organic Traffic Report  
& Chain of Custody Record**  
(For Organic CLP Analysis)

Case No.

26593

|   |              |   |                                      |  |                  |   |   |
|---|--------------|---|--------------------------------------|--|------------------|---|---|
| 1. Project Code                           | Account Code | 2. Region No.<br>V  | Sampling Co.<br>USACE-Omaha District | 4. Date Shipped<br>10/19/98  | Carrier<br>FEDEX | 6. Matrix<br>(Enter in Column A)<br><br>1. Surface Water<br>2. Ground Water<br>3. Leachate<br>4. Field QC<br>5. Soil/Sediment<br>6. Oil (High only)<br>7. Waste (High only)<br>8. Other (Specify in Column A) | 7. Preservative<br>(Enter in Column D)<br><br>1. HCl<br>2. HNO3<br>3. NaHSO4<br>4. H2SO4<br>5. Ice only<br>6. Other (Specify in Column D)<br>N. Not preserved |
| Regional Information                      |              | Sampler (Name)<br>Carolyn Schwedel  |                                      | Airbill Number<br>7222748271   |                  |   |   |
| Non-Superfund Program                     |              | Sampler Signature<br>Carolyn Schwedel   |                                      | 5. Ship To<br>Indust Environmental Analysts<br>628 Rt 10<br>Whippany, NJ 07981<br>ATTN: Don Green  |                  |   |   |
| Site Name<br>HIMCO DUMP<br>SUPERFUND SITE |              | 3. Purpose*   |                                      |  |                  |   |   |
| City, State<br>ELKHART, IN                |              | Site Spill ID<br>4J   |                                      |  |                  |   |   |
|   |              | <input type="checkbox"/> SF<br><input checked="" type="checkbox"/> PRP<br><input type="checkbox"/> ST<br><input type="checkbox"/> FED |                                      | Early Action<br><input type="checkbox"/> CLEM<br><input type="checkbox"/> PA<br><input type="checkbox"/> REM<br><input type="checkbox"/> RI<br><input type="checkbox"/> SI<br><input type="checkbox"/> ESI |                  | Long-Term Action<br><input checked="" type="checkbox"/> IFS<br><input checked="" type="checkbox"/> RD<br><input type="checkbox"/> RA<br><input type="checkbox"/> O&M<br><input type="checkbox"/> NPLD         |   |

| CLP Sample Numbers (from labels) | A Matrix (from Box 6)<br>Other: | B Conc.: Low Med High | C Sample Type: Comp. Grab | D Preservative (from Box 7)<br>Other: | E RAS Analysis |     |         |                   | F Regional Specific Tracking Number or Tag Numbers | G Station Location Identifier | H Mo/Day/Year/Time Sample Collection | I Corresponding CLP Inorganic Sample No. | J Sampler Initials | K Field QC Qualifier<br>B = Blank S = Spike<br>D = Duplicate<br>R = Retest<br>PE = Perform Eval.<br>- = Not a CC Sample |
|----------------------------------|---------------------------------|-----------------------|---------------------------|---------------------------------------|----------------|-----|---------|-------------------|--|-------------------------------|--------------------------------------|--|--------------------|---|
|                                  |                                 |                       |                           |                                       | VOA            | BNA | PAH/PCB | High only ARO/TOX |  |                               |                                      |  |                    |   |
| ECML1                            | S                               | L                     | C                         | S                                     |                | X   |         |                   | 5-φφ5386   | SB18-0.5                      | 10/19/98 0900                        | MEBQD8                                   | CAS                | -   |
| ECML1                            | S                               | L                     | G                         | S                                     | X              |     |         |                   | 5-φφ5385, 5-φφ5388                                 | SB18-0.5                      | 10/19/98 0900                        | MEBQD8                                   | CAS                | -   |
| ECML2                            | S                               | L                     | G/C                       | S                                     | X              | X   |         |                   | 5-φφ5390, 5-φφ5389 (1/538)                         | SB18-2                        | 10/19/98 0915                        | MEBQD9                                   | CAS                | -   |
| ECML3                            | S                               | L                     | G/C                       | S                                     | X              | X   |         |                   | 5-φφ5393, 5-φφ5394,<br>5-φφ5395, 5-φφ5396          | SB18-6                        | 10/19/98 0930                        | MEBQDφ                                   | CAS                | -   |
| ECMK8                            | S                               | L                     | G/C                       | S                                     | X              | X   |         |                   | 5-φφ5275, 5-φφ5276,<br>5-φφ5277                    | SB15-0.5                      | 10/19/98 0800                        | MEBQD5                                   | CAS                | -   |
| ECMK9                            | S                               | L                     | G/C                       | S                                     | X              | X   |         |                   | 5-φφ5278, 5-φφ5281,<br>5-φφ5282                    | SB15-2                        | 10/19/98 0915                        | MEBQD6                                   | CAS                | -   |
| ECMLφ                            | S                               | L                     | G/C                       | S                                     | X              | X   |         |                   | 5-φφ5279, 5-φφ5221,<br>5-φφ5283                    | SB15-6                        | 10/19/98 0830                        | MEBQD7                                   | CAS                | -   |
| ECML5                            | S                               | L                     | G/C                       | S                                     | X              | X   |         |                   | 5-φφ5215, φφ5371, φφ5194                           | SB05-2                        | 10/19/98 1045                        | MEBQD2                                   | CAS                | -   |
| ECMME                            | S                               | L                     | G/C                       | S                                     | X              | X   |         |                   | 5-φφ5205, φφ5204, φφ5206                           | SB06-10                       | 10/19/98 1400                        | MEBQF4                                   | CAS                | -   |

|                                   |                |  |                               |                                 |
|-----------------------------------|----------------|--|-------------------------------|---------------------------------|
| Shipment for Case Complete? (Y/N) | Page<br>1 of 1 | Sample(s) to be Used for Laboratory QC | Additional Sampler Signatures | Chain of Custody Seal Number(s) |
|-----------------------------------|----------------|--|-------------------------------|---------------------------------|

**CHAIN OF CUSTODY RECORD**

|  |                              |                          |                              |             |                                  |
|--|------------------------------|--------------------------|------------------------------|-------------|----------------------------------|
| Relinquished by: (Signature)<br>Carolyn Schwedel | Date / Time<br>10/19/98 1930 | Received by: (Signature) | Relinquished by: (Signature) | Date / Time | Received by: (Signature)         |
| Relinquished by: (Signature)                     | Date / Time                  | Received by: (Signature) | Relinquished by: (Signature) | Date / Time | Received by: (Signature)         |
| Relinquished by: (Signature)                     | Date / Time                  | Received by: (Signature) | Date / Time                  | Remarks     | Is custody seal intact? Y/N/none |

A21-012-15 REV



United States Environmental Protection Agency  
Contract Laboratory Program

Inorganic Traffic Report  
& Chain of Custody Record  
(For Inorganic CLP Analysis)

Case No.

26593

|   |              |  |  |  |                   |  |  |
|---|--------------|--|--|--|-------------------|--|--|
| 1. Project Code                           | Account Code | 2. Region No.<br>V   | Sampling Co.<br>USACE - Omaha District | 4. Date Shipped<br>10/20/98  | Carrier<br>Fed Ex | 6. Matrix (Enter in Column A)<br><br>1. Surface Water<br>2. Ground Water<br>3. Leachate<br>4. Field QC<br>5. Soil/Sediment<br>6. Oil (High only)<br>7. Waste (High only)<br>8. Other (specify in Column A) | 7. Preservative (Enter in Column D)<br><br>1. HCl<br>2. HNO3<br>3. NaOH<br>4. H2SO4<br>5. K2CR2O7<br>6. Ice only<br>7. Other (specify in Column D)<br>N. Not preserved |
| Regional Information                      |              | Sampler (Name)<br>Carolyn Schwafel   |  | Airbill Number<br>1172422101   |                   |  |  |
| Non-Superfund Program                     |              | Sampler Signature<br>Carolyn Schwafel  |  | 5. Ship To<br>SVC Analytical<br>One Government Gulch<br>Kelllogg, ID 83837<br>ATTN: Carol Williams |                   |  |  |
| Site Name<br>HIMCO PUMP<br>SUPERFUND SITE |              | 3. Purpose:<br>Early Action: CLEM, PA, REM, RI, SI, ESI<br>Long-Term Action: FS, RD, RA, O&M, NPLD |  |  |                   |  |  |
| City, State<br>ELKHART, IN                |              | Site Spill ID<br>45  |  |  |                   |  |  |

| CLP Sample Numbers (from labels) | A Matrix (from Box 6)<br>Other: | B Conc. Low Med High | C Sample Type: Comp./ Grab | D Preservative (from Box 7)<br>Other: | E - RAS Analysis |              |         |         |                      |                 |          | F Regional Specific Tracking Number or Tag Numbers | G Station Location Identifier | H Mo/Day/ Year/Time Sample Collection | I Corresponding CLP Organic Sample No. | J Sampler Initials | K Field QC Qualifier<br><small>Blank - S - Spike<br/>D - Duplicate<br/>H - Plate<br/>DF - Petriplate Eval<br/>- Not a QC Sample</small> |
|----------------------------------|---------------------------------|----------------------|----------------------------|---------------------------------------|------------------|--------------|---------|---------|----------------------|-----------------|----------|--|-------------------------------|---------------------------------------|--|--------------------|---|
|                                  |                                 |                      |                            |                                       | Diss. Metals     | Total Metals | Cyanide | NO2/NO3 | Low only<br>Fluoride | High only<br>PH | Conduct. |  |                               |                                       |  |                    |   |
| MEBQ69                           | S                               | L                    | C                          | 6                                     | X                | X            |         |         |                      |                 |          | 5-445319, 5-445318                                 | SB12-6                        | 10/20/98 115                          | ECMP2                                  | CS                 | -   |
| MEBQ68                           | S                               | L                    | C                          | 6                                     | X                | X            |         |         |                      |                 |          | 5-445318, 5-445319                                 | SB12-2                        | 10/20/98 110                          | ECMP1                                  | CS                 | -   |
| MEBQ67                           | S                               | L                    | C                          | 6                                     | X                | X            |         |         |                      |                 |          | 5-445317, 5-445316                                 | SB12-0.5                      | 10/20/98 1045                         | ECMP0                                  | CS                 | -   |
| MEBQ67                           | S                               | L                    | C                          | 6                                     | X                | X            |         |         |                      |                 |          | 5-445315, 5-445316                                 | SB12-0.5                      | 10/20/98 1045                         | ECMP0                                  | CS                 | S   |
| MEBQ63                           | S                               | L                    | C                          | 6                                     | X                | X            |         |         |                      |                 |          | 5-445413, 5-445412                                 | SB14-6                        | 10/20/98 0145                         | ELM N6                                 | CS                 | -   |
| MEBQ62                           | S                               | L                    | C                          | 6                                     | X                | X            |         |         |                      |                 |          | 5-445417, 5-445418                                 | SB14-2                        | 10/20/98 0130                         | ELM N5                                 | CS                 | -   |
| MEBQ61                           | S                               | L                    | C                          | 6                                     | X                | X            |         |         |                      |                 |          | 5-445352, 5-445347                                 | SB14-0.5                      | 10/20/98 0715                         | ELM N4                                 | CS                 | -   |
| MEBQ64                           | S                               | L                    | C                          | 6                                     | X                | X            |         |         |                      |                 |          | 5-445345, 5-445346                                 | SB10-6                        | 10/20/98 0820                         | ELM N3                                 | CS                 | -   |

|  |                |  |                               |                                 |
|--|----------------|--|-------------------------------|---------------------------------|
| Shipment for Case Complete? (Y/N)<br>N | Page<br>1 of 1 | Sample(s) to be Used for Laboratory QC<br>5-445315<br>5-445314 | Additional Sampler Signatures | Chain of Custody Seal Number(s) |
|--|----------------|--|-------------------------------|---------------------------------|

CHAIN OF CUSTODY RECORD

|  |                              |   |                              |             |                                  |
|--|------------------------------|---|------------------------------|-------------|----------------------------------|
| Relinquished by: (Signature)<br>Carolyn Schwafel | Date / Time<br>10/20/98 2030 | Received by: (Signature)                | Relinquished by: (Signature) | Date / Time | Received by: (Signature)         |
| Relinquished by: (Signature)                     | Date / Time                  | Received by: (Signature)                | Relinquished by: (Signature) | Date / Time | Received by: (Signature)         |
| Relinquished by: (Signature)                     | Date / Time                  | Received for Laboratory by: (Signature) | Date / Time                  | Remarks     | Is custody seal intact? Y/N/none |

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(2/98)

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\*SEE REVERSE FOR PURPOSE CODE DEFINITIONS



United States Environmental Protection Agency  
Contract Laboratory Program

**Organic Traffic Report  
& Chain of Custody Record**  
(For Organic CLP Analysis)

Case No. **26593**

|   |              |  |   |   |                     |  |  |
|---|--------------|--|---|---|---------------------|--|--|
| 1. Project Code                               | Account Code | 2. Region No. <b>V</b>   | Sampling Co. <b>USHE Under Dist. of</b> | 4. Date Shipped <b>10/20/98</b>   | Carrier <b>FEDX</b> | 6. Matrix (Enter in Column A)<br><br>1. Surface Water<br>2. Ground Water<br>3. Leachate<br>4. Field QC<br>5. Soil/Sediment<br>6. Oil (High only)<br>7. Waste (High only)<br>8. Other (Specify in Column A) | 7. Preservative (Enter in Column D)<br><br>1. HCl<br>2. HNO3<br>3. NaHSO4<br>4. H2SO4<br>5. Ica only<br>6. Other (Specify in Column D)<br>N. Not preserved |
| Regional Information                          |              | Sampler (Name) <b>Carolyn Schwafel</b>   |   | Airbill Number <b>2943449482</b>  |                     |  |  |
| Non-Superfund Program                         |              | Sampler Signature <b>Carolyn Schwafel</b>  |   | 5. Ship To <b>Industrial Environmental Analyst<br/>628 Route 10<br/>Whippany, NJ 07971<br/>ATTN: Dan Glen</b> |                     |  |  |
| Site Name <b>HMKO DUMP<br/>SUPERFUND SITE</b> |              | 3. Purpose*<br>Early Action: <input type="checkbox"/> CLEM, <input type="checkbox"/> PA, <input type="checkbox"/> REM, <input type="checkbox"/> RI, <input type="checkbox"/> SI, <input type="checkbox"/> ESI<br>Long-Term Action: <input checked="" type="checkbox"/> FS, <input checked="" type="checkbox"/> RD, <input checked="" type="checkbox"/> RA, <input type="checkbox"/> O&M, <input type="checkbox"/> NPLD |   |   |                     |  |  |
| City, State <b>ELKHART, IN</b>                |              | Site Spill ID <b>43</b>  |   |   |                     |  |  |

| CLP Sample Numbers (from labels) | A Matrix (from Box 6)<br>Other: | B Conc.: Low Med High | C Sample Type: Comp. Grab | D Preservative (from Box 7)<br>Other: | E RAS Analysis |     |         |                   | F Regional Specific Tracking Number or Tag Numbers | G Station Location Identifier | H Mo/Day/Year/Time Sample Collection | I Corresponding CLP Inorganic Sample No. | J Sampler Initials | K Field QC Qualifier<br><small>B = Blank S = Spike<br/>D = Duplicate R = Rinsate<br/>PE = Perform Eval<br/>- = Not a QC Sample</small> |
|----------------------------------|---------------------------------|-----------------------|---------------------------|---------------------------------------|----------------|-----|---------|-------------------|--|-------------------------------|--------------------------------------|--|--------------------|--|
|                                  |                                 |                       |                           |                                       | VOA            | BNA | PSU/PCB | High only ARO/TOX |  |                               |                                      |  |                    |  |
| ECMNS                            | S                               | L                     | S                         | E                                     | X              |     |         |                   | 5-445351, 5-445414                                 | SB14-2                        | 10/20/98 0930                        | MEB/C-2                                  | CS                 | -  |
| ECMNS                            | S                               | L                     | S                         | C                                     |                | X   |         |                   | 5-445411   | SB14-2                        | 10/20/98 0930                        | MEB/C-2                                  | CS                 | -  |
| ECMP4                            | S                               | L                     | S                         | E                                     | X              |     |         |                   | 5-445344, 5-445279                                 | SB12-4S                       | 10/20/98 1045                        | MEB/C-7                                  | CS                 | -  |
| ECMP4                            | S                               | L                     | S                         | C                                     |                | X   |         |                   | 5-445342   | SB12-4S                       | 10/20/98 1045                        | MEB/C-7                                  | CS                 | -  |
| ECMP4                            | S                               | L                     | S                         | E                                     | X              |     |         |                   | 5-445312, 5-445311<br>5-445312, 5-445313           | SB12-4S                       | 10/20/98 1045                        | MEB/C-7                                  | CS                 | S  |
| ECMP4                            | S                               | L                     | S                         | C                                     |                | X   |         |                   | 5-445344   | SB12-4S                       | 10/20/98 1045                        | MEB/C-7                                  | CS                 | S  |

|  |                    |   |                               |                                 |
|--|--------------------|---|-------------------------------|---------------------------------|
| Shipment for Case Complete? (Y/N) <b>(Y)</b> | Page <b>2 of 2</b> | Sample(s) to be Used for Laboratory QC<br><b>5-445342 5-445341 5-445344<br/>5-445278 5-445313</b> | Additional Sampler Signatures | Chain of Custody Seal Number(s) |
|--|--------------------|---|-------------------------------|---------------------------------|

**CHAIN OF CUSTODY RECORD**

|   |                                     |   |                              |             |                                  |
|---|-------------------------------------|---|------------------------------|-------------|----------------------------------|
| Relinquished by: (Signature)<br><b>Carolyn Schwafel</b> | Date / Time<br><b>10/20/98 2030</b> | Received by: (Signature)                | Relinquished by: (Signature) | Date / Time | Received by: (Signature)         |
| Relinquished by: (Signature)                            | Date / Time                         | Received by: (Signature)                | Relinquished by: (Signature) | Date / Time | Received by: (Signature)         |
| Relinquished by: (Signature)                            | Date / Time                         | Received for Laboratory by: (Signature) | Date / Time                  | Remarks     | Is custody seal intact? Y/N/none |

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(2/98)

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SEE REVERSE FOR PURPOSE CODE DEFINITIONS

A21-012-15 REV



United States Environmental Protection Agency  
Contract Laboratory Program

**Chain of Custody Record**  
(For Organic CLP Analysis)

Case No. **26593**

|  |              |  |  |   |                     |  |  |
|--|--------------|--|--|---|---------------------|--|--|
| 1. Project Code                            | Account Code | 2. Region No. <b>V</b>   | Sampling Co. <b>USACE - Omaha District</b> | 4. Date Shipped <b>10/20/98</b>                           | Carrier <b>FEDX</b> | 6. Matrix (Enter in Column A)<br><br>1. Surface Water<br>2. Ground Water<br>3. Leachate<br>4. Field QC<br>5. Soil/Sediment<br>6. Oil (High only)<br>7. Waste (High only)<br>8. Other (Specify in Column A) | 7. Preservative (Enter in Column D)<br><br>1. HCl<br>2. HNO3<br>3. NaHSO4<br>4. H2SO4<br>5. Ice only<br>6. Other (Specify in Column D)<br>N. Not preserved |
| Regional Information                       |              | Sampler (Name) <b>Carolyn Schwafel</b>   |  | Airbill Number <b>294344 9482</b>                         |                     |  |  |
| Non-Superfund Program                      |              | Sampler Signature <b>Carolyn Schwafel</b>  |  | 5. Ship To <b>Industrial Environmental Analysts</b>       |                     |  |  |
| Site Name <b>HIMCO DUMP SUPERFUND SITE</b> |              | 3. Purpose*<br>Early Action: <input type="checkbox"/> CLEM, <input type="checkbox"/> PA, <input type="checkbox"/> REM, <input type="checkbox"/> RI, <input type="checkbox"/> SI, <input type="checkbox"/> ESI<br>Long-Term Action: <input checked="" type="checkbox"/> FS, <input type="checkbox"/> RD, <input type="checkbox"/> RA, <input type="checkbox"/> O&M, <input type="checkbox"/> NPLD |  | 6.2E Route 10<br>Whippany, NJ 07981<br>ATTN: Dan G. Kelly |                     |  |  |
| City, State <b>ELKHART, IN</b>             |              | Site Spill ID <b>4J</b>  |  |   |                     |  |  |

| CLP Sample Numbers (from labels) | A Matrix (from Box 6)<br>Other: | B Conc.: Low Med High | C Sample Type: Comp. Grab | D Preservative (from Box 7)<br>Other: | E RAS Analysis |     |         | F Regional Specific Tracking Number or Tag Numbers | G Station Location Identifier | H Mo/Day/Year/Time Sample Collection | I Corresponding CLP Inorganic Sample No. | J Sampler Initials | K Field QC Qualifier<br>B = Blank S = Spike<br>D = Duplicate<br>R = Retest<br>PE = Perform Eval<br>- = Not a QC Sample |
|----------------------------------|---------------------------------|-----------------------|---------------------------|---------------------------------------|----------------|-----|---------|--|-------------------------------|--------------------------------------|--|--------------------|--|
|                                  |                                 |                       |                           |                                       | VOA            | BNA | Pos/PCB |  |                               |                                      |  |                    |  |
| ECMP2                            | S                               | L                     | G                         | S                                     | X              |     |         | S-445311, S-445314                                 | SB12-6                        | 10/20/98 1115                        | MEBQ69                                   | CS                 | -  |
| ECMP2                            | S                               | L                     | C                         | S                                     |                | X   |         | S-445312   | SB12-6                        | 10/20/98 1115                        | MEBQ69                                   | CS                 | -  |
| ECMP1                            | S                               | L                     | C                         | S                                     | X              |     |         | S-445313, S-445317                                 | SB12-2                        | 10/20/98 1100                        | MEBQ68                                   | CS                 | -  |
| ECMP1                            | S                               | L                     | C                         | S                                     | X              |     |         | S-445316   | SB12-2                        | 10/20/98 1100                        | MEBQ68                                   | CS                 | -  |
| ECMM9                            | S                               | L                     | G                         | S                                     | X              |     |         | S-445245, S-445246                                 | SB08-2                        | 10/20/98 0745                        | MEBQF6                                   | CS                 | -  |
| ECMM9                            | S                               | L                     | C                         | S                                     |                | X   |         | S-445244   | SB08-2                        | 10/20/98 0745                        | MEBQF6                                   | CS                 | -  |
| ECMM7                            | S                               | L                     | G                         | S                                     | X              |     |         | S-445273, S-445401                                 | SB08-4.5                      | 10/20/98 0730                        | MEBQF5                                   | CS                 | -  |
| ECMM8                            | S                               | L                     | C                         | S                                     |                | X   |         | S-445240   | SB08-4.5                      | 10/20/98 0730                        | MEBQF5                                   | CS                 | -  |
| ECMN6                            | S                               | L                     | G                         | S                                     | X              |     |         | S-445416, S-445414                                 | SB14-6                        | 10/20/98 0745                        | MEBQ63                                   | CS                 | -  |
| ECMN6                            | S                               | L                     | C                         | S                                     |                | X   |         | S-445415   | SB14-6                        | 10/20/98 0745                        | MEBQ63                                   | CS                 | -  |

|  |                           |  |                               |                                 |
|--|---------------------------|--|-------------------------------|---------------------------------|
| Shipment for Case Complete? (Y/N) <b>(Y)</b> | Page <b>1</b> of <b>2</b> | Sample(s) to be Used for Laboratory QC | Additional Sampler Signatures | Chain of Custody Seal Number(s) |
|--|---------------------------|--|-------------------------------|---------------------------------|

**CHAIN OF CUSTODY RECORD**

|   |                                     |   |                              |             |                                  |
|---|-------------------------------------|---|------------------------------|-------------|----------------------------------|
| Relinquished by: (Signature)<br><b>Carolyn Schwafel</b> | Date / Time<br><b>10/20/98 2030</b> | Received by: (Signature)                | Relinquished by: (Signature) | Date / Time | Received by: (Signature)         |
| Relinquished by: (Signature)                            | Date / Time                         | Received by: (Signature)                | Relinquished by: (Signature) | Date / Time | Received by: (Signature)         |
| Relinquished by: (Signature)                            | Date / Time                         | Received for Laboratory by: (Signature) | Date / Time                  | Remarks     | Is custody seal intact? Y/N/none |

A21-C12-15 REV



United States Environmental Protection Agency  
Contract Laboratory Program

**Organic Traffic Report  
& Chain of Custody Record**  
(For Organic CLP Analysis)

Case No.

26913

|  |              |   |   |   |                   |  |  |
|--|--------------|---|---|---|-------------------|--|--|
| 1. Project Code                        | Account Code | 2. Region No.<br>V                          | Sampling Co.<br>USA CE Chemica District | 4. Date Shipped<br>10/20/98   | Carrier<br>Fed Ex | 6. Matrix (Enter in Column A)<br><br>1. Surface Water<br>2. Ground Water<br>3. Leachate<br>4. Field QC<br>5. Soil/Sediment<br>6. Oil (High only)<br>7. Waste (High only)<br>8. Other (Specify in Column A) | 7. Preservative (Enter in Column D)<br><br>1. HCl<br>2. HNO3<br>3. NaHSO4<br>4. H2SO4<br>5. Ice only<br>6. Other (Specify in Column D)<br>N. Not preserved |
| Regional Information                   |              | Sampler (Name)<br>Carolyn Schumel           |   | Airbill Number<br>2943449493  |                   |  |  |
| Non-Superfund Program                  |              | Sampler Signature<br><i>Carolyn Schumel</i> |   | 5. Ship To<br>Industrial Environmental Analysts<br>628 Route 10<br>Whippany, NJ 07981<br>ATTN: Dan Glin |                   |  |  |
| Site Name<br>Hanco Dump Superfund Site |              | 3. Purpose                                  |   |   |                   |  |  |
| City, State<br>Elizabeth, NJ           |              | Site Spill ID<br>45                         |   |   |                   |  |  |

| CLP Sample Numbers (from labels) | A Matrix (from Box 6)<br>Other: | B Conc.: Low Med High | C Sample Type: Comp. Grab | D Preservative (from Box 7)<br>Other: | E RAS Analysis |     |    |           |         | F Regional Specific Tracking Number or Tag Numbers | G Station Location Identifier | H Mo/Day/Year/Time Sample Collection | I Corresponding CLP Inorganic Sample No. | J Sampler Initials | K Field QC Qualifier<br>B = Blank S = Spike<br>D = Duplicate<br>R = Retest<br>PE = Perform Eval<br>- = Not a QC Sample |
|----------------------------------|---------------------------------|-----------------------|---------------------------|---------------------------------------|----------------|-----|----|-----------|---------|--|-------------------------------|--------------------------------------|--|--------------------|--|
|                                  |                                 |                       |                           |                                       | VOA            | BNA | PA | High only | ARO/TOX |  |                               |                                      |  |                    |  |
| ECMN1                            | S                               | L                     | G                         | S                                     | X              |     |    |           |         | S-445344, S-1153358                                | SB10-10                       | 10/20/98 0800                        | MEB41F8                                  | CS                 | D  |
| ECMN1                            | S                               | L                     | C                         | S                                     |                | X   |    |           |         | S-4453339  | SB10-10                       | 10/20/98 0800                        | MEB41F8                                  | CS                 | D  |
| ECMN3                            | S                               | L                     | G                         | S                                     | X              |     |    |           |         | S-445217, S-445217                                 | SB10-6                        | 10/20/98 0830                        | MEB41G4                                  | CS                 | -  |
| ECMN3                            | S                               | L                     | C                         | S                                     |                | X   |    |           |         | S-445216   | SB10-6                        | 10/20/98 0830                        | MEB41G4                                  | CS                 | -  |
| ECMN4                            | S                               | L                     | G                         | S                                     | X              |     |    |           |         | S-445349, S-445350                                 | SB14-05                       | 10/20/98 0815                        | MEB41G1                                  | CS                 | -  |
| ECMN4                            | S                               | L                     | C                         | S                                     |                | X   |    |           |         | S-445348   | SB14-05                       | 10/20/98 0815                        | MEB41G1                                  | CS                 | -  |

Shipment for Case Complete? (Y/N) Y Page 2 of 2 Sample(s) to be Used for Laboratory QC Additional Sampler Signatures Chain of Custody Seal Number(s)

**CHAIN OF CUSTODY RECORD**

|  |                               |   |                              |             |                                  |
|--|-------------------------------|---|------------------------------|-------------|----------------------------------|
| Relinquished by: (Signature)<br><i>Carolyn Schumel</i> | Date / Time<br>10/20/98 12:03 | Received by: (Signature)                | Relinquished by: (Signature) | Date / Time | Received by: (Signature)         |
| Relinquished by: (Signature)                           | Date / Time                   | Received by: (Signature)                | Relinquished by: (Signature) | Date / Time | Received by: (Signature)         |
| Relinquished by: (Signature)                           | Date / Time                   | Received for Laboratory by: (Signature) | Date / Time                  | Remarks     | Is custody seal intact? Y/N/none |

DISTRIBU

Blue - Region Copy  
White - Lab Copy for Return to Region

Pin. CLASS Copy  
Yellow - Lab Copy for Return to CLAS

EPA Form 911  
(2/98)

SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS  
SEE REVERSE FOR PURPOSE CODE DEFINITIONS

A21-012-15 REV



Organic Traffic Report  
& Chain of Custody Record  
(For Organic CLP Analysis)

Case No.

26593

|  |              |   |                                   |   |                   |   |   |
|--|--------------|---|-----------------------------------|---|-------------------|---|---|
| 1. Project Code                        | Account Code | 2. Region No. <input checked="" type="checkbox"/> I | Sampling Co.<br>USAHE<br>District | 4. Date Shipped<br>10/20/98   | Carrier<br>Fed Ex | 6. Matrix<br>(Enter in Column A)  | 7. Preservative<br>(Enter in Column D)  |
| Regional Information                   |              | 3. Sampler (Name)<br>Carolyn Schwafel               |                                   | Airbill Number<br>2943449493  |                   |   |   |
| Non-Superfund Program                  |              | 3. Sampler Signature<br>Carolyn Schwafel            |                                   | 5. Ship To<br>Industrial Environmental Analysts<br>628 Route 10<br>Whippany, NJ 07981   |                   | 1. Surface Water<br>2. Ground Water<br>3. Leachate<br>4. Field QC<br>5. Soil/Sediment<br>6. Oil (High only)<br>7. Waste (High only)<br>8. Other (Specify in Column A) | 1. HCl<br>2. HNO3<br>3. NaHSO4<br>4. H2SO4<br>5. Ice only<br>6. Other (Specify in Column D)<br>N. Not preserved |
| Site Name<br>Himes Pump Superfund Site |              | 3. Purpose  |                                   | ATTN: Dan Glen  |                   |   |   |
| City, State<br>Elkhart, IN             |              | Site Spill ID<br>45                                 |                                   | <input checked="" type="checkbox"/> Early Action<br><input type="checkbox"/> CLEM<br><input type="checkbox"/> PA<br><input type="checkbox"/> REM<br><input type="checkbox"/> RI<br><input type="checkbox"/> SI<br><input type="checkbox"/> ES<br><input checked="" type="checkbox"/> Long-Term Action<br><input type="checkbox"/> FS<br><input type="checkbox"/> RD<br><input type="checkbox"/> RA<br><input type="checkbox"/> O&M<br><input type="checkbox"/> NPLD |                   |   |   |

| CLP Sample Numbers (from labels) | A Matrix (from Box 6)<br>Other: | B Conc.: Low Med High | C Sample Type: Comp. Grab | D Preservative (from Box 7)<br>Other: | E RAS Analysis |     |         |                   | F Regional Specific Tracking Number or Tag Numbers | G Station Location Identifier | H Mo/Day/Year/Time Sample Collection | I Corresponding CLP Inorganic Sample No. | J Sampler Initials | K Field QC Qualifier<br><small>B = Blank S = Spike<br/>D = Duplicate R = Reanalyze<br/>PE = Perform Eval<br/>- = Not a QC Sample</small> |
|----------------------------------|---------------------------------|-----------------------|---------------------------|---------------------------------------|----------------|-----|---------|-------------------|--|-------------------------------|--------------------------------------|--|--------------------|--|
|                                  |                                 |                       |                           |                                       | VOA            | BNA | PSA/PCB | High only ARO/TOX |  |                               |                                      |  |                    |  |
| ECMN7                            | S                               | L                     | G                         | S                                     | X              |     |         |                   | 5-445418, 5-445417                                 | SB13-0.5                      | 10/20/98 1000                        | MEB C64                                  | CS                 | -  |
| ECMN7                            | S                               | L                     | C                         | S                                     |                | X   |         |                   | 5-445419   | SB13-0.5                      | 10/20/98 1000                        | MEB C64                                  | CS                 | -  |
| ECMN8                            | S                               | L                     | G                         | S                                     | X              |     |         |                   | 5-445416, 5-445415                                 | SB13-2                        | 10/20/98 1000                        | MEB C65                                  | CS                 | -  |
| ECMN8                            | S                               | L                     | C                         | S                                     |                | X   |         |                   | 5-445322   | SB13-2                        | 10/20/98 1015                        | MEB C65                                  | CS                 | -  |
| ECMN9                            | S                               | L                     | G                         | S                                     | X              |     |         |                   | 5-445414, 5-445398                                 | SB13-6                        | 10/20/98 1030                        | MEB C66                                  | CS                 | -  |
| ECMN9                            | S                               | L                     | C                         | S                                     |                | X   |         |                   | 5-445411   | SB13-6                        | 10/20/98 1030                        | MEB C66                                  | CS                 | -  |
| ECMN9                            | S                               | L                     | C                         | S                                     | X              |     |         |                   | 5-445335, 5-445334                                 | SB10-0.5                      | 10/20/98 0800                        | MEB C67                                  | CS                 | -  |
| ECMN9                            | S                               | L                     | C                         | S                                     |                | X   |         |                   | 5-445333   | SB10-0.5                      | 10/20/98 0800                        | MEB C67                                  | CS                 | -  |
| ECMN2                            | S                               | L                     | G                         | S                                     | X              |     |         |                   | 5-445342, 5-445344                                 | SB10-2                        | 10/20/98 0800                        | MEB C69                                  | CS                 | -  |
| ECMN2                            | S                               | L                     | C                         | S                                     |                | X   |         |                   | 5-445343   | SB10-2                        | 10/20/98 0800                        | MEB C69                                  | CS                 | -  |

|   |                |  |                               |                                 |
|---|----------------|--|-------------------------------|---------------------------------|
| Shipment for Case Complete? (Y/N) <input checked="" type="checkbox"/> | Page<br>1 of 2 | Sample(s) to be Used for Laboratory QC | Additional Sampler Signatures | Chain of Custody Seal Number(s) |
|---|----------------|--|-------------------------------|---------------------------------|

CHAIN OF CUSTODY RECORD

|  |                              |   |                              |             |                                  |
|--|------------------------------|---|------------------------------|-------------|----------------------------------|
| Relinquished by: (Signature)<br>Carolyn Schwafel | Date / Time<br>10/20/98 2030 | Received by: (Signature)                | Relinquished by: (Signature) | Date / Time | Received by: (Signature)         |
| Relinquished by: (Signature)                     | Date / Time                  | Received by: (Signature)                | Relinquished by: (Signature) | Date / Time | Received by: (Signature)         |
| Relinquished by: (Signature)                     | Date / Time                  | Received for Laboratory by: (Signature) | Date / Time                  | Remarks     | Is custody seal intact? Y/N/none |

A21-012-15 REV



United States Environmental Protection Agency  
Contract Laboratory Program

### Inorganic Traffic Report & Chain of Custody Record (For Inorganic CLP Analysis)

Case No.

26593

|  |                     |  |                                   |   |                   |   |   |
|--|---------------------|--|-----------------------------------|---|-------------------|---|---|
| 1. Project Code                        | Account Code        | 2. Region No.<br>V   | Sampling Co.<br>USACE<br>District | 4. Date Shipped<br>10/20/98   | Carrier<br>Fed Ex | 6. Matrix<br>(Enter in Column A)<br>1. Surface Water<br>2. Ground Water<br>3. Leachate<br>4. Field QC<br>5. Soil/Sediment<br>6. Oil (High only)<br>7. Waste (High only)<br>8. Other (specify in Column A) | 7. Preservative<br>(Enter in Column D)<br>1. HCl<br>2. HNO3<br>3. NaOH<br>4. H2SO4<br>5. K2CR2O7<br>6. Ice only<br>7. Other (specify in Column D)<br>N. Not preserved |
| Regional Information                   |                     | Sampler (Name)<br>Carolyn Schwedel   |                                   | Airbill Number<br>1172422112  |                   |   |   |
| Non-Superfund Program                  |                     | Sampler Signature<br>Carolyn Schwedel  |                                   | 5. Ship To<br>SVL Analytical<br>One Government Gulch<br>Kellogg, ID 83837<br>ATTN: Carol Williams |                   |   |   |
| Site Name<br>Himes Dump Superfund Site |                     | 3. Purpose:<br>Early Action: CLEM, PA, REM, RI, SI, ESI<br>Long-Term Action: FS, RD, RA, O&M, NPLD |                                   |   |                   |   |   |
| City, State<br>Elkhart, IN             | Site Spill ID<br>40 |  |                                   |   |                   |   |   |

| CLP Sample Numbers (from labels) | A Matrix (from Box 6)<br>Other: | B Conc. Low Med High | C Sample Type: Comp./ Grab | D Preservative (from Box 7)<br>Other: | E - RAS Analysis |              |         |         |                      |                             | F Regional Specific Tracking Number or Tag Numbers | G Station Location Identifier | H Mo/Day/Year/Time Sample Collection | I Corresponding CLP Organic Sample No. | J Sampler Initials | K Field QC Qualifier |   |
|----------------------------------|---------------------------------|----------------------|----------------------------|---------------------------------------|------------------|--------------|---------|---------|----------------------|-----------------------------|--|-------------------------------|--------------------------------------|--|--------------------|----------------------|---|
|                                  |                                 |                      |                            |                                       | Diss. Metals     | Total Metals | Cyanide | NO2/NO3 | Low only<br>Fluoride | High only<br>pH<br>Conduct. |  |                               |                                      |  |                    |                      |   |
| MEBQ64                           | S                               | L                    | C                          | G                                     | X                | X            |         |         |                      |                             |  | 5-4453201, 5-4453221          | SB13-C5                              | 10/20/98 1000                          | ECMN7              | CS                   | - |
| MEBQ65                           | S                               | L                    | C                          | G                                     | X                | X            |         |         |                      |                             |  | 5-445404, 5-445403            | SB13-2                               | 10/20/98 1015                          | ECMN8              | CS                   | - |
| MEBQ66                           | S                               | L                    | C                          | G                                     | X                | X            |         |         |                      |                             |  | 5-445349, 5-445297            | SB13-6                               | 10/20/98 1030                          | ECMN9              | CS                   | - |
| MEBQF9                           | S                               | L                    | C                          | G                                     | X                | X            |         |         |                      |                             |  | 5-445221, 5-445222            | SB10-2                               | 10/20/98 0815                          | ECMN2              | CS                   | - |
| MEBQF7                           | S                               | L                    | C                          | G                                     | X                | X            |         |         |                      |                             |  | 5-445332, 5-445336            | SB10-C5                              | 10/20/98 0800                          | ECMN7              | CS                   | - |
| MEBQF8                           | S                               | L                    | C                          | G                                     | X                | X            |         |         |                      |                             |  | 5-445331, 5-445341            | SB10-10                              | 10/20/98 0800                          | ECMN1              | CS                   | D |
| MEBQF5                           | S                               | L                    | C                          | G                                     | X                | X            |         |         |                      |                             |  | 5-445239, 5-445243            | SB08-C5                              | 10/20/98 0730                          | ECMN8              | CS                   | - |
| MEBQF6                           | S                               | L                    | C                          | G                                     | X                | X            |         |         |                      |                             |  | 5-445331, 5-445402            | SB08-2                               | 10/20/98 0745                          | ECMN9              | CS                   | - |

|                                   |                |  |                               |                                 |
|-----------------------------------|----------------|--|-------------------------------|---------------------------------|
| Shipment for Case Complete? (Y/N) | Page<br>1 of 1 | Sample(s) to be Used for Laboratory QC | Additional Sampler Signatures | Chain of Custody Seal Number(s) |
|-----------------------------------|----------------|--|-------------------------------|---------------------------------|

#### CHAIN OF CUSTODY RECORD

|  |                              |   |                              |             |                                  |
|--|------------------------------|---|------------------------------|-------------|----------------------------------|
| Relinquished by: (Signature)<br>Carolyn Schwedel | Date / Time<br>10/20/98 2030 | Received by: (Signature)                | Relinquished by: (Signature) | Date / Time | Received by: (Signature)         |
| Relinquished by: (Signature)                     | Date / Time                  | Received by: (Signature)                | Relinquished by: (Signature) | Date / Time | Received by: (Signature)         |
| Relinquished by: (Signature)                     | Date / Time                  | Received for Laboratory by: (Signature) | Date / Time                  | Remarks     | Is custody seal intact? Y/N/none |

DISTRIBUTE

Green - Region Copy  
White - Lab Copy for Return to Region

Pink - LASS Copy  
Yellow - Lab Copy for Return to CLP

EPA Form 9110

(2/98)

SEE REVERSE FOR ADDITIONAL STANDARD INSTRUMENTS  
SEE REVERSE FOR PURPOSE CODE DEFINITIONS

487-2-2-10-REV



United States Environmental Protection Agency  
Contract Laboratory Program

**Organic Traffic Report  
& Chain of Custody Record**  
(For Inorganic CLP Analysis)

Case No.

26593

|   |              |                                       |                                      |   |                     |                                  |  |
|---|--------------|---------------------------------------|--------------------------------------|---|---------------------|----------------------------------|--|
| 1. Project Code<br>TAG#<br>DW 96947722-01-3 | Account Code | 2. Region No.<br>5                    | Sampling Co.<br>USACE Omaha District | 4. Date Shipped<br>10/21/98   | Carrier<br>Fed Exp. | 6. Matrix<br>(Enter in Column A) | 7. Preservative<br>(Enter in Column D) |
| Regional Information                        |              | Sampler (Name)<br>Carolyn Schwafel    |                                      | Airbill Number<br>809200471671  |                     | 1. Surface Water                 | 1. HCl                                 |
| Non-Superfund Program                       |              | Sampler Signature<br>Carolyn Schwafel |                                      | 5. Ship To<br>SVL Analytical, Inc.<br>One Government Gulch<br>Kellogg, ID 83837 |                     | 2. Ground Water                  | 2. HNO3                                |
| Site Name<br>Himco Dump Superfund Site      |              | 3. Purpose                            |                                      | ATTN: Carol Williams  |                     | 3. Leachate                      | 3. NaOH                                |
| City, State<br>Elkhart, IN                  |              | Site Spill ID<br>43                   |                                      |   |                     | 4. Field QC                      | 4. H2SO4                               |
|   |              | Lead Action                           |                                      |   |                     | 5. Soil/Sediment                 | 5. K2CR2O7                             |
|   |              | Early Action                          |                                      |   |                     | 6. Oil (High only)               | 6. Ice only                            |
|   |              | Long Term Action                      |                                      |   |                     | 7. Waste (High only)             | 7. Other (specify in Column D)         |
|   |              | CLEM                                  |                                      |   |                     | 8. Other (specify in Column A)   | N. Not preserved                       |
|   |              | PA                                    |                                      |   |                     |                                  |  |
|   |              | REM                                   |                                      |   |                     |                                  |  |
|   |              | RI                                    |                                      |   |                     |                                  |  |
|   |              | SI                                    |                                      |   |                     |                                  |  |
|   |              | ESI                                   |                                      |   |                     |                                  |  |

| CLP Sample Numbers (from labels) | A Matrix (from Box 6)<br>Other: | B Conc. Low Med High | C Sample Type: Comp./ Grab | D Preservative (from Box 7)<br>Other: | E - RAS Analysis |              |         |         |                      |                          | F Regional Specific Tracking Number or Tag Numbers | G Station Location Identifier | H Mo/Day/Year/Time Sample Collection | I Corresponding CLP Organic Sample No. | J Sampler Initials | K Field QC Qualifier |
|----------------------------------|---------------------------------|----------------------|----------------------------|---------------------------------------|------------------|--------------|---------|---------|----------------------|--------------------------|--|-------------------------------|--------------------------------------|--|--------------------|----------------------|
|                                  |                                 |                      |                            |                                       | Diss. Metals     | Total Metals | Cyanide | NO2/NO3 | Low only<br>Fluoride | High only<br>pH Conduct. |  |                               |                                      |  |                    |                      |
| MEBQH3                           | 5                               | L                    | C                          | 6                                     | X                | X            |         |         |                      |                          | 5-005186 / 5-005259                                | SB09-0.5                      | 10/21/98 0845                        | ECMP6                                  | CAS                | -                    |
| MEBQH5                           | 5                               | L                    | C                          | 6                                     | X                | X            |         |         |                      |                          | 5-021034 / 5-021027                                | SB09-2                        | 10/21/98 0900                        | ECMP8                                  | CAS                | -                    |
| MEBQH4                           | 5                               | L                    | C                          | 6                                     | X                | X            |         |         |                      |                          | 5-005258 / 5-005257                                | SB09-10                       | 10/21/98 0845                        | ECMP7                                  | CAS                | .D                   |
| MEBQH1                           | 5                               | L                    | C                          | 6                                     | X                | X            |         |         |                      |                          | 5-005226 / 5-005227                                | SB11-2                        | 10/21/98 0815                        | ECMP4                                  | CAS                | -                    |
| MEBQH2                           | 5                               | L                    | C                          | 6                                     | X                | X            |         |         |                      |                          | 5-005255 / 5-005256                                | SB11-6                        | 10/21/98 0830                        | ECMP5                                  | CAS                | -                    |
| MEBQH0                           | 5                               | L                    | C                          | 6                                     | X                | X            |         |         |                      |                          | 5-005269 / 5-005190                                | SB11-0.5                      | 10/4/98 0800                         | ECMP3                                  | CAS                | -                    |
| MEBQH7                           | 5                               | L                    | C                          | 6                                     | X                | X            |         |         |                      |                          | 5-021090 / 5-021091                                | SB07-2                        | 10/4/98 0930                         | ECMP6                                  | CAS                | -                    |
| MEBQH6                           | 5                               | L                    | C                          | 6                                     | X                | X            |         |         |                      |                          | 5-021034 / 5-021035                                | SB07-0.5                      | 10/4/98 0915                         | ECMP9                                  | CAS                | -                    |
| MEBQH6                           | 5                               | L                    | C                          | 6                                     | X                | X            |         |         |                      |                          | 5-021036 / 5-021037                                | SB07-0.5                      | 10/21/98 0915                        | ECMP9                                  | CAS                | S                    |

|                                   |                |  |                               |                                 |
|-----------------------------------|----------------|--|-------------------------------|---------------------------------|
| Shipment for Case Complete? (Y/N) | Page<br>1 of 1 | Sample(s) to be Used for Laboratory QC<br>5-021036<br>5-021037 | Additional Sampler Signatures | Chain of Custody Seal Number(s) |
|-----------------------------------|----------------|--|-------------------------------|---------------------------------|

CHAIN OF CUSTODY RECORD

|  |                              |   |                              |             |                                  |
|--|------------------------------|---|------------------------------|-------------|----------------------------------|
| Relinquished by: (Signature)<br>Carolyn Schwafel | Date / Time<br>10/21/98 1930 | Received by: (Signature)                | Relinquished by: (Signature) | Date / Time | Received by: (Signature)         |
| Relinquished by: (Signature)                     | Date / Time                  | Received by: (Signature)                | Relinquished by: (Signature) | Date / Time | Received by: (Signature)         |
| Relinquished by: (Signature)                     | Date / Time                  | Received for Laboratory by: (Signature) | Date / Time                  | Remarks     | Is custody seal intact? Y/N/none |



United States Environmental Protection Agency  
Contract Laboratory Program

**Organic Traffic Report  
& Chain of Custody Record**  
(For Organic CLP Analysis)

Case No.

26593

|   |              |   |                                       |  |                   |   |   |
|---|--------------|---|---------------------------------------|--|-------------------|---|---|
| 1. Project Code<br>+AC #<br>DW 16947722-013 | Account Code | 2. Region No.<br>5  | Sampling Co.<br>USACE Cincin District | 4. Date Shipped<br>10/21/98  | Carrier<br>Fed Ex | 6. Matrix<br>(Enter in Column A)<br><br>1. Surface Water<br>2. Ground Water<br>3. Leachate<br>4. Field QC<br>5. Soil/Sediment<br>6. Oil (High only)<br>7. Waste (High only)<br>8. Other (Specify in Column A) | 7. Preservative<br>(Enter in Column D)<br><br>1. HCl<br>2. HNO3<br>3. NaHSO4<br>4. H2SO4<br>5. Ice only<br>6. Other (Specify in Column D)<br>N. Not preserved |
| Regional Information                        |              | Sampler (Name)<br>Candy Schuefel  |                                       | Airbill Number<br>809200471693   |                   |   |   |
| Non-Superfund Program                       |              | Sampler Signature<br>Candy Schuefel   |                                       | 5. Ship To<br>Industrial Environmental Analysts<br>628 Route 10<br>Whippany, NJ 07981<br>ATTN: Dan Glen  |                   |   |   |
| Site Name<br>Himco Dump Superfund Site      |              | 3. Purpose  |                                       |  |                   |   |   |
| City, State<br>Elkhart, IN                  |              | Site Spill ID<br>40   |                                       |  |                   |   |   |
|   |              | <input checked="" type="checkbox"/> SF<br><input type="checkbox"/> PRP<br><input type="checkbox"/> ST<br><input type="checkbox"/> FED |                                       | <input type="checkbox"/> CLEM<br><input type="checkbox"/> PA<br><input type="checkbox"/> REM<br><input type="checkbox"/> RI<br><input type="checkbox"/> SI<br><input type="checkbox"/> ESI |                   | <input checked="" type="checkbox"/> FS<br><input type="checkbox"/> XRD<br><input type="checkbox"/> RA<br><input type="checkbox"/> O&M<br><input type="checkbox"/> NPLD  |   |

| CLP Sample Numbers (from labels) | A Matrix (from Box 6)<br>Other: | B Conc.: Low Med High | C Sample Type: Comp. Grab | D Preservative (from Box 7)<br>Other: | E RAS Analysis |     |         |                                     | F Regional Specific Tracking Number or Tag Numbers | G Station Location Identifier | H Mo/Day/Year/Time Sample Collection | I Corresponding CLP Inorganic Sample No. | J Sampler Initials | K Field QC Qualifier<br>B = Blank S = Spike<br>D = Duplicate<br>A = Airscale<br>PE = Perform Eval<br>- = Not a QC Sample |
|----------------------------------|---------------------------------|-----------------------|---------------------------|---------------------------------------|----------------|-----|---------|-------------------------------------|--|-------------------------------|--------------------------------------|--|--------------------|--|
|                                  |                                 |                       |                           |                                       | VOA            | BNA | PEB/PCB | High only ARO/TOX                   |  |                               |                                      |  |                    |  |
| ECMP3                            | 5                               | L                     | G                         | 5                                     | X              |     |         | 5-005193/5-005192                   | SB11-0.5   | 10/21/98 0800                 | MEBR H0                              | CAS                                      | -                  |  |
| ECMP3                            | 5                               | L                     | G                         | 5                                     |                | X   |         | 5-005191                            | SB11-0.5   | 10/21/98 0800                 | MEBR H0                              | CAS                                      | -                  |  |
| ECMQ6                            | 5                               | L                     | G                         | 5                                     | X              |     |         | 5-021089/5-021020                   | SB07-2   | 10/21/98 0930                 | MEBR H7                              | CAS                                      | -                  |  |
| ECMQ6                            | 5                               | L                     | C                         | 5                                     |                | X   |         | 5-021038                            | SB07-2   | 10/21/98 0930                 | MEBR H7                              | CAS                                      | -                  |  |
| ECMP9                            | 5                               | L                     | G                         | 5                                     | X              |     |         | 5-021026/5-021025                   | SB07-0.5   | 10/21/98 0915                 | MEBR H6                              | CAS                                      | -                  |  |
| ECMP9                            | 5                               | L                     | G                         | 5                                     | X              |     |         | 5-021030/5-021023/5-021021/5-021022 | SB07-0.5   | 10/21/98 0915                 | MEBR H6                              | CAS                                      | S                  |  |
| ECMP9                            | 5                               | L                     | C                         | 5                                     |                | X   |         | 5-021032                            | SB07-0.5   | 10/21/98 0915                 | MEBR H6                              | CAS                                      | -                  |  |
| ECMP9                            | 5                               | L                     | C                         | 5                                     |                | X   |         | 5-021035                            | SB07-0.5   | 10/21/98 0915                 | MEBR H6                              | CAS                                      | S                  |  |

|   |                |   |                               |                                 |
|---|----------------|---|-------------------------------|---------------------------------|
| Shipment for Case Complete? (Y/N) <input checked="" type="checkbox"/> | Page<br>2 of 2 | Sample(s) to be Used for Laboratory QC<br>5-021030 5-021031 5-021033<br>5-021028 5-021024 | Additional Sampler Signatures | Chain of Custody Seal Number(s) |
|---|----------------|---|-------------------------------|---------------------------------|

**CHAIN OF CUSTODY RECORD**

|  |                              |   |                              |  |                          |
|--|------------------------------|---|------------------------------|--|--------------------------|
| Relinquished by: (Signature)<br>Candy Schuefel | Date / Time<br>10/21/98 1930 | Received by: (Signature)                | Relinquished by: (Signature) | Date / Time                              | Received by: (Signature) |
| Relinquished by: (Signature)                   | Date / Time                  | Received by: (Signature)                | Relinquished by: (Signature) | Date / Time                              | Received by: (Signature) |
| Relinquished by: (Signature)                   | Date / Time                  | Received for Laboratory by: (Signature) | Date / Time                  | Remarks Is custody seal intact? Y/N/none |                          |

A21-012-15 REV



United States Environmental Protection Agency  
Contract Laboratory Program

**Chain of Custody Record**  
(For Organic CLP Analysis)

Case No.

26543

|   |              |  |                                      |   |                   |   |   |
|---|--------------|--|--------------------------------------|---|-------------------|---|---|
| 1. Project Code<br>LAG #<br>24969 47722-013 | Account Code | 2. Region No.<br>5                       | Sampling Co.<br>USACE Omaha District | 4. Date Shipped<br>10-21-98   | Carrier<br>Fed Ex | 6. Matrix<br>(Enter in Column A)<br><br>1. Surface Water<br>2. Ground Water<br>3. Leachate<br>4. Field QC<br>5. Soil/Sediment<br>6. Oil (High only)<br>7. Waste (High only)<br>8. Other (Specify in Column A) | 7. Preservative<br>(Enter in Column D)<br><br>1. HCl<br>2. HNO3<br>3. NaHSO4<br>4. H2SO4<br>5. Ice only<br>6. Other (Specify in Column D)<br>N. Not preserved |
| Regional Information                        |              | 3. Sampler (Name)<br>Carolyn Schwafel    |                                      | Airbill Number<br>809200471693  |                   |   |   |
| Non-Superfund Program                       |              | 3. Sampler Signature<br>Carolyn Schwafel |                                      | 5. Ship To<br>Industrial Environmental Analysts<br>628 Route 10<br>Whippany, NJ 07981<br>ATTN: Day Glen |                   |   |   |
| Site Name<br>Times Dump Superfund Site      |              | 3. Purpose                               |                                      | Lead  |                   |   |   |
| City, State<br>Elkhart, IN                  |              | Site Spill ID<br>45                      |                                      | Daily Action  |                   |   |   |
|   |              |  |                                      | Long-Term Action  |                   |   |   |

| CLP Sample Numbers (from labels) | A Matrix (from Box 6)<br>Other: | B Conc.: Low Med High | C Sample Type: Comp. Grab | D Preservative (from Box 7)<br>Other: | E RAS Analysis |     |          |                   | F Regional Specific Tracking Number or Tag Numbers | G Station Location Identifier | H Mo/Day/Year/Time Sample Collection | I Corresponding CLP Inorganic Sample No. | J Sampler Initials | K Field QC Qualifier<br>B = Blank S = Spike<br>D = Duplicate<br>R = Rinsate<br>PE = Perform Eval<br>-- = Not a QC Sample |
|----------------------------------|---------------------------------|-----------------------|---------------------------|---------------------------------------|----------------|-----|----------|-------------------|--|-------------------------------|--------------------------------------|--|--------------------|--|
|                                  |                                 |                       |                           |                                       | VOA            | BNA | Pest/PCB | High only ARO/TOX |  |                               |                                      |  |                    |  |
| ECMP6                            | 5                               | L                     | G                         | 5                                     | X              |     |          | 5-005187/5-005188 | SB09-05  | 10/21/98 0845                 | MEBRH3                               | CAS                                      | -                  |  |
| ECMP6                            | 5                               | L                     | C                         | 5                                     |                | X   |          | 5-005188          | SB09-05  | 10/21/98 0845                 | MEBRH3                               | CAS                                      | -                  |  |
| ECMP8                            | 5                               | L                     | G                         | 5                                     | X              |     |          | 5-021023/5-021022 | SB09-2   | 10/21/98 0900                 | MEBRH5                               | CAS                                      | -                  |  |
| ECMP8                            | 5                               | L                     | C                         | 5                                     |                | X   |          | 5-021021          | SB09-2   | 10/21/98 0900                 | MEBRH5                               | CAS                                      | -                  |  |
| ECMP7                            | 5                               | L                     | G                         | 5                                     | X              |     |          | 5-021005/5-021201 | SB09-10  | 10/21/98 0845                 | MEBRH4                               | CAS                                      | D                  |  |
| ECMP7                            | 5                               | L                     | C                         | 5                                     |                | X   |          | 5-021019          | SB09-10  | 10/21/98 0845                 | MEBRH4                               | CAS                                      | D                  |  |
| ECMP4                            | 5                               | L                     | G                         | 5                                     | X              |     |          | 5-005225/5-005230 | SB11-2   | 10/21/98 0815                 | MEBRH1                               | CAS                                      | -                  |  |
| ECMP4                            | 5                               | L                     | C                         | 5                                     |                | X   |          | 5-005228          | SB11-2   | 10/21/98 0815                 | MEBRH1                               | CAS                                      | -                  |  |
| ECMP5                            | 5                               | L                     | G                         | 5                                     | X              |     |          | 5-005253/5-005254 | SB11-6   | 10/21/98 0830                 | MEBRH2                               | CAS                                      | -                  |  |
| ECMP5                            | 5                               | L                     | C                         | 5                                     |                | X   |          | 5-005252          | SB11-6   | 10/21/98 0830                 | MEBRH2                               | CAS                                      | -                  |  |

|                                   |                |  |                               |                                 |
|-----------------------------------|----------------|--|-------------------------------|---------------------------------|
| Shipment for Case Complete? (Y/N) | Page<br>1 of 2 | Sample(s) to be Used for Laboratory QC | Additional Sampler Signatures | Chain of Custody Seal Number(s) |
|-----------------------------------|----------------|--|-------------------------------|---------------------------------|

**CHAIN OF CUSTODY RECORD**

|  |                              |   |                              |             |                                  |
|--|------------------------------|---|------------------------------|-------------|----------------------------------|
| Relinquished by: (Signature)<br>Carolyn Schwafel | Date / Time<br>10/21/98/1930 | Received by: (Signature)                | Relinquished by: (Signature) | Date / Time | Received by: (Signature)         |
| Relinquished by: (Signature)                     | Date / Time                  | Received by: (Signature)                | Relinquished by: (Signature) | Date / Time | Received by: (Signature)         |
| Relinquished by: (Signature)                     | Date / Time                  | Received for Laboratory by: (Signature) | Date / Time                  | Remarks     | Is custody seal intact? Y/N/none |

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Pink - CLASS Copy  
Yellow - Lab Copy for Return to CLASS

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(2/98)

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SEE REVERSE FOR PURPOSE CODE DEFINITIONS

A21-012-15 REV



United States Environmental Protection Agency  
Contract Laboratory Program

**Inorganic Traffic Report  
& Chain of Custody Record**  
(For Inorganic CLP Analysis)

Case No.

26593

|  |  |  |                                      |   |                   |   |   |                             |                             |                              |  |                             |                              |                             |                                |                              |  |  |  |  |  |
|--|--|--|--------------------------------------|---|-------------------|---|---|-----------------------------|-----------------------------|------------------------------|--|-----------------------------|------------------------------|-----------------------------|--------------------------------|------------------------------|--|--|--|--|--|
| 1. Project Code<br>LPG #<br>D-96947722-013 | Account Code                           | 2. Region No.<br>5   | Sampling Co.<br>USACE Omaha District | 4. Date Shipped<br>10/19/98   | Carrier<br>Fed Ex | 6. Matrix<br>(Enter in Column A)<br>1. Surface Water<br>2. Ground Water<br>3. Leachate<br>4. Field QC<br>5. Soil/Sediment<br>6. Oil (High only)<br>7. Waste (High only)<br>8. Other (specify in Column A) | 7. Preservative<br>(Enter in Column D)<br>1. HCl<br>2. HNO3<br>3. NaOH<br>4. H2SO4<br>5. K2CR2O7<br>6. Ice only<br>7. Other (specify in Column D)<br>N. Not preserved |                             |                             |                              |  |                             |                              |                             |                                |                              |  |  |  |  |  |
| Regional Information                       |  | 3. Sampler (Name)<br>Marc Anderson   |                                      | Airbill Number<br>7642848861  |                   |   |   |                             |                             |                              |  |                             |                              |                             |                                |                              |  |  |  |  |  |
| Non-Superfund Program                      |  | 3. Sampler Signature<br>Marc Anderson  |                                      | 5. Ship To<br>SOL Analytical, Inc.<br>One Government Gulch<br>Kellogg, ID 83837<br>ATTN: Carol Williams |                   |   |   |                             |                             |                              |  |                             |                              |                             |                                |                              |  |  |  |  |  |
| Site Name<br>Hinko Dump Superfund Site     |  | 3. Purpose   |                                      |   |                   |   |   |                             |                             |                              |  |                             |                              |                             |                                |                              |  |  |  |  |  |
| City, State<br>Elkhart, IN                 | Site Spill ID<br>45                    | <table border="0"> <tr> <td>Emergency Action</td> <td>Long-Term Action</td> </tr> <tr> <td><input type="checkbox"/> CLEM</td> <td><input type="checkbox"/> FS</td> </tr> <tr> <td><input type="checkbox"/> PA</td> <td><input type="checkbox"/> RD</td> </tr> <tr> <td><input type="checkbox"/> REM</td> <td><input checked="" type="checkbox"/> RA</td> </tr> <tr> <td><input type="checkbox"/> RI</td> <td><input type="checkbox"/> O&amp;M</td> </tr> <tr> <td><input type="checkbox"/> SI</td> <td><input type="checkbox"/> INPLD</td> </tr> <tr> <td><input type="checkbox"/> ESI</td> <td></td> </tr> </table> |                                      | Emergency Action  | Long-Term Action  | <input type="checkbox"/> CLEM   | <input type="checkbox"/> FS   | <input type="checkbox"/> PA | <input type="checkbox"/> RD | <input type="checkbox"/> REM | <input checked="" type="checkbox"/> RA | <input type="checkbox"/> RI | <input type="checkbox"/> O&M | <input type="checkbox"/> SI | <input type="checkbox"/> INPLD | <input type="checkbox"/> ESI |  |  |  |  |  |
| Emergency Action                           | Long-Term Action                       |  |                                      |   |                   |   |   |                             |                             |                              |  |                             |                              |                             |                                |                              |  |  |  |  |  |
| <input type="checkbox"/> CLEM              | <input type="checkbox"/> FS            |  |                                      |   |                   |   |   |                             |                             |                              |  |                             |                              |                             |                                |                              |  |  |  |  |  |
| <input type="checkbox"/> PA                | <input type="checkbox"/> RD            |  |                                      |   |                   |   |   |                             |                             |                              |  |                             |                              |                             |                                |                              |  |  |  |  |  |
| <input type="checkbox"/> REM               | <input checked="" type="checkbox"/> RA |  |                                      |   |                   |   |   |                             |                             |                              |  |                             |                              |                             |                                |                              |  |  |  |  |  |
| <input type="checkbox"/> RI                | <input type="checkbox"/> O&M           |  |                                      |   |                   |   |   |                             |                             |                              |  |                             |                              |                             |                                |                              |  |  |  |  |  |
| <input type="checkbox"/> SI                | <input type="checkbox"/> INPLD         |  |                                      |   |                   |   |   |                             |                             |                              |  |                             |                              |                             |                                |                              |  |  |  |  |  |
| <input type="checkbox"/> ESI               |  |  |                                      |   |                   |   |   |                             |                             |                              |  |                             |                              |                             |                                |                              |  |  |  |  |  |

| CLP Sample Numbers (from labels) | A Matrix (from Box 6)<br>Other: | B Conc. Low Med High | C Sample Type: Comp./ Grab | D Preservative (from Box 7)<br>Other: | E - RAS Analysis |              |         |         |          |    |          | F Regional Specific Tracking Number or Tag Numbers | G Station Location Identifier | H Mo/Day/Year/Time Sample Collection | I Corresponding CLP Organic Sample No. | J Sampler Initials | K Field QC Qualifier<br><small>B = Blank S = Spike<br/>D = Duplicate<br/>R = Rinsate<br/>PL = Pesticide Eval<br/>* Not a QC Sample</small> |
|----------------------------------|---------------------------------|----------------------|----------------------------|---------------------------------------|------------------|--------------|---------|---------|----------|----|----------|--|-------------------------------|--------------------------------------|--|--------------------|--|
|                                  |                                 |                      |                            |                                       | Diss. Metals     | Total Metals | Cyanide | NO2/NO3 | Fluoride | pH | Conduct. |  |                               |                                      |  |                    |  |
| MEBQEX                           | 2                               | L                    | G                          | 2                                     |                  | X            |         |         |          |    |          | 5-pp5292   | WT102A                        | 10/19/98 1509                        | ECMMφ                                  | MA                 | -  |
| MEBQEX                           | 2                               | L                    | G                          | 2                                     |                  | X            |         |         |          |    |          | 5-pp5290   | WT102A                        | 10/19/98 1509                        | ECMMφ                                  | MA                 | 5  |
| MEBQEX                           | 2                               | L                    | G                          | 2                                     |                  |              | X       |         |          |    |          | 5-pp5291   | WT102A                        | 10/19/98 1509                        | ECMMφ                                  | MA                 | -  |
| MEBQEX                           | 2                               | L                    | G                          | 2                                     |                  |              | X       |         |          |    |          | 5-pp5364 5-pp5363                                  | WT102A                        | 10/19/98 1509                        | ECMMφ                                  | MA                 | 5  |

|  |                |   |                               |                                 |
|--|----------------|---|-------------------------------|---------------------------------|
| Shipment for Case Complete? (Y/N)<br>Y | Page<br>1 of 1 | Sample(s) to be Used for Laboratory QC<br>5-pp5290 5-pp5363<br>5-pp5364 | Additional Sampler Signatures | Chain of Custody Seal Number(s) |
|--|----------------|---|-------------------------------|---------------------------------|

**CHAIN OF CUSTODY RECORD**

|   |                              |   |                              |             |                                  |
|---|------------------------------|---|------------------------------|-------------|----------------------------------|
| Relinquished by: (Signature)<br>Marc Anderson | Date / Time<br>10/19/98 1900 | Received by: (Signature)                | Relinquished by: (Signature) | Date / Time | Received by: (Signature)         |
| Relinquished by: (Signature)                  | Date / Time                  | Received by: (Signature)                | Relinquished by: (Signature) | Date / Time | Received by: (Signature)         |
| Relinquished by: (Signature)                  | Date / Time                  | Received for Laboratory by: (Signature) | Date / Time                  | Remarks     | Is custody seal intact? Y/N/none |



United States Environmental Protection Agency  
Contract Laboratory Program

Inorganic Traffic Report  
& Chain of Custody Record  
(For Inorganic CLP Analysis)

Case No.

26593

|   |                     |   |                                      |   |                   |   |   |
|---|---------------------|---|--------------------------------------|---|-------------------|---|---|
| 1. Project Code<br>IAG<br>W9694772.2-01-3 | Account Code        | 2. Region No.<br>5  | Sampling Co.<br>USACE Omaha District | 4. Date Shipped<br>10/20/98   | Carrier<br>Fed Ex | 6. Matrix<br>(Enter in Column A)<br><br>1. Surface Water<br>2. Ground Water<br>3. Leachate<br>4. Field QC<br>5. Soil/Sediment<br>6. Oil (High only)<br>7. Waste (High only)<br>8. Other (specify in Column A) | 7. Preservative<br>(Enter in Column D)<br><br>1. HCl<br>2. HNO3<br>3. NaOH<br>4. H2SO4<br>5. K2CR2O7<br>6. Ice only<br>7. Other (specify in Column D)<br>N. Not preserved |
| Regional Information                      |                     | Sampler (Name)<br>Marc Anderson   |                                      | Airbill Number<br>7642849211  |                   |   |   |
| Non-Superfund Program                     |                     | Sampler Signature<br>Marc Anderson  |                                      | 5. Ship To<br>SUL Analytical, Inc.<br>One Government Gulch<br>Kellogg, ID 83837<br>ATTN: Carol Williams |                   |   |   |
| Site Name<br>Himco Dump Superfund Site    |                     | 3. Purpose<br>Daily Action: CLEM, PA, REM, RI, SI, ESI<br>Long-Term Action: FS, RD, RA, O&M, NPLD |                                      |   |                   |   |   |
| City, State<br>Elkhart, IN                | Site Spill ID<br>45 |   |                                      |   |                   |   |   |

| CLP Sample Numbers (from labels) | A Matrix (from Box 6)<br>Other: | B Conc. Low Med High | C Sample Type: Comp./Grab | D Preservative (from Box 7)<br>Other: | E - RAS Analysis |              |         |         |          |    |          | F Regional Specific Tracking Number or Tag Numbers | G Station Location Identifier | H Mo/Day/Year/Time Sample Collection | I Corresponding CLP Organic Sample No. | J Sampler Initials | K Field QC Qualifier<br><small>Blank Spike Duplicate Analyte Potenti Eval Not a QC Sample</small> |
|----------------------------------|---------------------------------|----------------------|---------------------------|---------------------------------------|------------------|--------------|---------|---------|----------|----|----------|--|-------------------------------|--------------------------------------|--|--------------------|---|
|                                  |                                 |                      |                           |                                       | Diss. Metals     | Total Metals | Cyanide | NO2/NO3 | Fluoride | PH | Conduct. |  |                               |                                      |  |                    |   |
| MEBQE9                           | 2                               | L                    | G                         | 2                                     | X                |              |         |         |          |    |          | 5-φ21φ11   | WT112A                        | 10/20/98 0742                        | ECmm2                                  | MA                 | -   |
| MEBQE01                          | 2                               | L                    | G                         | 3                                     |                  | X            |         |         |          |    |          | 5-φ21φ12   | WT112A                        | 10/20/98 0742                        | ECmm2                                  | MA                 | -   |
| MEBQF1                           | 2                               | L                    | G                         | 2                                     |                  | X            |         |         |          |    |          | 5-φ21φ17   | WT114A                        | 10/20/98 1450                        | ECmm4                                  | MA                 | -   |
| MEBQF1                           | 2                               | L                    | G                         | 3                                     |                  | X            |         |         |          |    |          | 5-φ21φ18   | WT114A                        | 10/20/98 1450                        | ECmm4                                  | MA                 | -   |

|  |                |  |                               |                                 |
|--|----------------|--|-------------------------------|---------------------------------|
| Shipment for Case Complete? (Y/N)<br>0 | Page<br>1 of 1 | Sample(s) to be Used for Laboratory QC | Additional Sampler Signatures | Chain of Custody Seal Number(s) |
|--|----------------|--|-------------------------------|---------------------------------|

CHAIN OF CUSTODY RECORD

|   |                               |   |                              |             |                                  |
|---|-------------------------------|---|------------------------------|-------------|----------------------------------|
| Relinquished by: (Signature)<br>Marc Anderson | Date / Time<br>20 Oct 98 1827 | Received by: (Signature)                | Relinquished by: (Signature) | Date / Time | Received by: (Signature)         |
| Relinquished by: (Signature)                  | Date / Time                   | Received by: (Signature)                | Relinquished by: (Signature) | Date / Time | Received by: (Signature)         |
| Relinquished by: (Signature)                  | Date / Time                   | Received for Laboratory by: (Signature) | Date / Time                  | Remarks     | Is custody seal intact? Y/N/none |



United States Environmental Protection Agency  
Contract Laboratory Program

**Inorganic Traffic Report  
& Chain of Custody Record**  
(For Inorganic CLP Analysis)

Case No.

26593

|  |              |                                    |                                      |   |                   |   |   |
|--|--------------|------------------------------------|--------------------------------------|---|-------------------|---|---|
| 1. Project Code<br>FAG 7F<br>DW 96947722-013 | Account Code | 2. Region No.<br>5                 | Sampling Co.<br>USACE Omaha District | 4. Date Shipped<br>10/21/98   | Carrier<br>Fed Ex | 6. Matrix<br>(Enter in Column A)<br><br>1. Surface Water<br>2. Ground Water<br>3. Leachate<br>4. Field QC<br>5. Soil/Sediment<br>6. Oil (High only)<br>7. Waste (High only)<br>8. Other (specify in Column A) | 7. Preservative<br>(Enter in Column D)<br><br>1. HCl<br>2. HNO3<br>3. NaOH<br>4. H2SO4<br>5. K2CH2O7<br>6. Ice only<br>7. Other (specify in Column D)<br>N. Not preserved |
| Regional Information                         |              | Sampler (Name)<br>Marc Anderson    |                                      | Airbill Number<br>809 200471660   |                   |   |   |
| Non-Superfund Program                        |              | Sampler Signature<br>Marc Anderson |                                      | 5. Ship To<br>SVL Analytical, Inc.<br>One Government Gulch<br>Kelloug, ID 83837<br>ATTN: Carol Williams |                   |   |   |
| Site Name<br>Himco Dump Superfund Site       |              | 3. Purpose*                        |                                      |   |                   |   |   |
| City, State<br>Elkhart, IN                   |              | Site Spill ID<br>45                |                                      |   |                   |   |   |
|  |              | Lead<br>SF<br>PRP<br>ST<br>FED     |                                      | Early Action<br>CLEM<br>PA<br>REM<br>RI<br>SI<br>ESI  |                   | Long Term Action<br>IFS<br>RD<br>RA<br>O&M<br>NPLD  |   |

| CLP Sample Numbers (from labels) | A Matrix (from Box 6)<br>Other: | B Conc. Low Med High | C Sample Type: Comp./ Grab | D Preservative (from Box 7)<br>Other: | E - RAS Analysis |              |         |         |          |           |          | F Regional Specific Tracking Number or Tag Numbers | G Station Location Identifier | H Mo/Day/Year/Time Sample Collection | I Corresponding CLP Organic Sample No. | J Sampler Initials | K Field QC Qualifier |    |
|----------------------------------|---------------------------------|----------------------|----------------------------|---------------------------------------|------------------|--------------|---------|---------|----------|-----------|----------|--|-------------------------------|--------------------------------------|--|--------------------|----------------------|----|
|                                  |                                 |                      |                            |                                       | Diss. Metals     | Total Metals | Cyanide | NO2/NO3 | Low only | High only | Fluoride |  |                               |                                      |  |                    |                      | pH | Conduct. |
| MEBQF1                           | 2                               | L                    | G                          | 2                                     |                  | X            |         |         |          |           |          |  | 5-φ21213                      | WT101A                               | 10/21/98 0835                          | ECM Qφ             | MA                   | D  |
| MEBQF1                           | 2                               | L                    | G                          | 3                                     |                  | X            |         |         |          |           |          |  | 5-φ21φ39                      | WT101A                               | 10/21/98 0835                          | ECM Qφ             | MA                   | D  |
| MEBQF2                           | 2                               | L                    | G                          | 2                                     |                  | X            |         |         |          |           |          |  | 5-φ212φ6                      | WT101A                               | 10/21/98 0835                          | ECM Qφ5            | MA                   | -  |
| MEBQF2                           | 2                               | L                    | G                          | 3                                     |                  | X            |         |         |          |           |          |  | 5-φ212φ7                      | WT101A                               | 10/21/98 0835                          | ECM Qφ5            | MA                   | -  |
| MEBQF3                           | 2                               | L                    | G                          | 2                                     |                  | X            |         |         |          |           |          |  | 5-φ21φ46                      | WT115A                               | 10/21/98 1140                          | ECM Q2             | MA                   | -  |
| MEBQF3                           | 2                               | L                    | G                          | 3                                     |                  | X            |         |         |          |           |          |  | 5-φ21φ47                      | WT115A                               | 10/21/98 1140                          | ECM Q2             | MA                   | -  |
| MEBQJ1                           | 2                               | L                    | G                          | 2                                     |                  | X            |         |         |          |           |          |  | 5-φ21φ51                      | WT115A                               | 10/21/98 1140                          | ECM Q3             | MA                   | R  |
| MEBQJ1                           | 2                               | L                    | G                          | 3                                     |                  | X            |         |         |          |           |          |  | 5-φ21φ95                      | WT115A                               | 10/21/98 1140                          | ECM Q3             | MA                   | R  |
| MEBQJ2                           | 2                               | L                    | G                          | 2                                     |                  | X            |         |         |          |           |          |  | 5-φ211φ7                      | WT116A                               | 10/21/98 1512                          | ECM Q4             | MA                   | -  |
| MEBQJ2                           | 2                               | L                    | G                          | 3                                     |                  | X            |         |         |          |           |          |  | 5-φ211φ8                      | WT116A                               | 10/21/98 1512                          | ECM Q4             | MA                   | -  |

|  |             |  |                               |                                 |
|--|-------------|--|-------------------------------|---------------------------------|
| Shipment for CLP Complete? (Y/N) <input checked="" type="checkbox"/> | Page 1 of 1 | Sample(s) to be Used for Laboratory QC | Additional Sampler Signatures | Chain of Custody Seal Number(s) |
|--|-------------|--|-------------------------------|---------------------------------|

**CHAIN OF CUSTODY RECORD**

|   |                               |   |                              |             |                                  |
|---|-------------------------------|---|------------------------------|-------------|----------------------------------|
| Relinquished by: (Signature)<br>Marc Anderson | Date / Time<br>21 Oct 98 1900 | Received by: (Signature)                | Relinquished by: (Signature) | Date / Time | Received by: (Signature)         |
| Relinquished by: (Signature)                  | Date / Time                   | Received by: (Signature)                | Relinquished by: (Signature) | Date / Time | Received by: (Signature)         |
| Relinquished by: (Signature)                  | Date / Time                   | Received for Laboratory by: (Signature) | Date / Time                  | Remarks     | Is custody seal intact? Y/N/none |

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White - Lab Copy for Return to Region

Pin - CLASS Copy  
Yellow - Lab Copy for Return to CLASS

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12/00A

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SEE REVERSE FOR PURPOSE CODE DEFINITIONS

REV 12/00

JUN 01 00 9:49 NO.003 P.04



United States Environmental Protection Agency  
Contract Laboratory Program

**Organic Traffic Report  
& Chain of Custody Record**  
(For Organic CLP Analysis)

Case No. **506 A**  
**26593 ECMD**

|  |  |  |   |   |                          |   |                          |
|--|--|--|---|---|--------------------------|---|--------------------------|
| <b>1. Matrix</b><br>(Enter in Column A)<br><br>1. Surface Water<br>2. Ground Water<br>3. Leachate<br>4. Field OC<br>5. Soil/Sediment<br>6. Oil (High only)<br>7. Waste (High only)<br>8. Other (Specify in Column A) | <b>2. Preservative</b><br>(Enter in Column D)<br><br>1. HCl<br>2. HNO3<br>3. NaHSO4<br>4. H2SO4<br>5. Ice only<br>6. Other (Specify in Column D)<br>N. Not preserved | <b>2. Region No.</b><br>5                        | <b>3. Sampling Co.</b><br>USMCE<br>District | <b>4. Date Shipped</b><br>10/21/98  | <b>Carrier</b><br>Fed Ex | <b>6. Data Received -- Received by:</b><br>10/22/98 J. Doffinger                    |                          |
|  |  | <b>Sampler (Name)</b><br>Marc Anderson           |   | <b>Airbill Number</b><br>809200471682   |                          | <b>Laboratory Contract Number</b><br>68050011                                       | <b>Unit Price</b><br>825 |
|  |  | <b>Sampler Signature</b><br><i>Marc Anderson</i> |   | <b>5. Ship To</b><br>Industrial Environmental Analyst<br>628 Route 10<br>Whippany, NJ 07981<br>ATTN: Dan Glen |                          | <b>7. Transfer to:</b><br>Received by: _____<br>Contract Number: _____ Price: _____ |                          |

| CLP Sample Numbers (from labels) | A Matrix (from Box 1)<br>Other | B. Conc. Low Med High | C Sample Type: Comp. Grab | D Preservative (from Box 2)<br>Other | E RAS Analysis |     |     |           |                    | F Regional Specific Tracking Number or Tag Numbers | G Station Location Identifier | H Mo/Day/Year/Time Sample Collection | I Corresponding CLP Inorganic Sample No. | J Sampler Initials | K High Phases |              |            |
|----------------------------------|--------------------------------|-----------------------|---------------------------|--------------------------------------|----------------|-----|-----|-----------|--------------------|--|-------------------------------|--------------------------------------|--|--------------------|---------------|--------------|------------|
|                                  |                                |                       |                           |                                      | VOA            | BNA | PCB | High only | ARO/TOX            |  |                               |                                      |  |                    | Sediment      | Water-Metals | Water-Imm. |
| ECMD3                            | 2                              | L                     | G                         | 5                                    | X              |     |     |           | 5-φ21φφφ, 5-φ21φ5φ | WT115A   | 10/21/98 1210                 | MEBQJ1                               | MA                                       |                    |               |              |            |
| ECMD4                            | 2                              | L                     | G                         | 5                                    | X              |     |     |           | 5-φ211φ5, 5-φ211φ6 | WT116A   | 10/21/98 1512                 | MEBQJ2                               | MA                                       |                    |               |              |            |
|                                  |                                |                       |                           |                                      |                |     |     |           |                    |  |                               |                                      |  |                    |               |              |            |
|                                  |                                |                       |                           |                                      |                |     |     |           |                    |  |                               |                                      |  |                    |               |              |            |
|                                  |                                |                       |                           |                                      |                |     |     |           |                    |  |                               |                                      |  |                    |               |              |            |
|                                  |                                |                       |                           |                                      |                |     |     |           |                    |  |                               |                                      |  |                    |               |              |            |
|                                  |                                |                       |                           |                                      |                |     |     |           |                    |  |                               |                                      |  |                    |               |              |            |
|                                  |                                |                       |                           |                                      |                |     |     |           |                    |  |                               |                                      |  |                    |               |              |            |
|                                  |                                |                       |                           |                                      |                |     |     |           |                    |  |                               |                                      |  |                    |               |              |            |

|  |                           |  |                               |                                 |
|--|---------------------------|--|-------------------------------|---------------------------------|
| Shipment for Case Complete? (Y/N) <b>(Y)</b> | Page <b>1</b> of <b>1</b> | Sample(s) to be Used for Laboratory QC | Additional Sampler Signatures | Chain of Custody Seal Number(s) |
|--|---------------------------|--|-------------------------------|---------------------------------|

**CHAIN OF CUSTODY RECORD**

|  |                         |  |                              |             |                                  |
|--|-------------------------|--|------------------------------|-------------|----------------------------------|
| Relinquished by: (Signature)<br><i>Marc Anderson</i> | Date / Time<br>10/21/98 | Received by: (Signature)<br><i>[Signature]</i>                   | Relinquished by: (Signature) | Date / Time | Received by: (Signature)         |
| Relinquished by: (Signature)                         | Date / Time             | Received by: (Signature)   | Relinquished by: (Signature) | Date / Time | Received by: (Signature)         |
| Relinquished by: (Signature)                         | Date / Time             | Received for Laboratory by: (Signature)<br><i>John Doffinger</i> | Date / Time<br>10/21/98      | Remarks     | Is custody seal intact? Y/N/none |



United States Environmental Protection Agency  
Contract Laboratory Program

Organic Traffic Report  
& Chain of Custody Record  
(For Organic CLP Analysis)

Case No. 26573 516 NO  
ECMMO

|  |  |   |  |   |                |  |                 |               |
|--|--|---|--|---|----------------|--|-----------------|---------------|
| 1. Matrix (Enter in Column A)<br>1. Surface Water<br>2. Ground Water<br>3. Leachate<br>4. Field QC<br>5. Soil/Sediment<br>6. Oil (High only)<br>7. Waste (High only)<br>8. Other (Specify in Column A) | 2. Preservative (Enter in Column D)<br>1. HCl<br>2. HNO3<br>3. NaHSO4<br>4. H2SO4<br>5. Ice only<br>6. Other (Specify in Column D)<br>N. Not preserved | 2. Region No. 5   | Sampling Co. WACE District   | 4. Date Shipped 10/20/98  | Carrier Fed Ex | 6. Date Received -- Received by: 10/21/98 John Duffryn |                 |               |
|  |  | Sampler (Name) Marc Anderson  |  | Airbill Number 7642849222   |                | Laboratory Contract Number 6805011                     | Unit Price 829  |               |
|  |  | Sampler Signature [Signature]   |  | 5. Ship To Industrial Environmental Analysts, Inc. 628 Route 10 Whippany, NJ 07991  |                | 7. Transfer to: [Blank]                                |                 | Date Received |
| 3. Purpose   |  | <input checked="" type="checkbox"/> SF<br><input type="checkbox"/> PRP<br><input type="checkbox"/> ST<br><input type="checkbox"/> FED | <input type="checkbox"/> CLEM<br><input type="checkbox"/> PA<br><input type="checkbox"/> REM<br><input type="checkbox"/> RI<br><input type="checkbox"/> SI<br><input type="checkbox"/> ESI | <input checked="" type="checkbox"/> FS<br><input type="checkbox"/> RD<br><input type="checkbox"/> RA<br><input type="checkbox"/> O&M<br><input type="checkbox"/> NPLD | Received by    |  | Contract Number | Price         |

| CLP Sample Numbers (from labels) | A Matrix (from Box 1) | B Conc. Low Med High | C Sample Type: Comp. Grab | D Preservative (from Box 2) | E RAS Analysis |     |         |                   | F Regional Specific Tracking Number or Tag Numbers | G Station Location Identifier | H Mo/Day/Year/Time Sample Collection | I Corresponding CLP Inorganic Sample No. | J Sampler Initials | K High Phases |          |                 |
|----------------------------------|-----------------------|----------------------|---------------------------|-----------------------------|----------------|-----|---------|-------------------|--|-------------------------------|--------------------------------------|--|--------------------|---------------|----------|-----------------|
|                                  |                       |                      |                           |                             | VOA            | BNA | PAH/PCB | High only ARO/TOX |  |                               |                                      |  |                    | Soluble       | Volatile | Water-Insoluble |
| ECMM2                            | 2                     | L                    | G                         | 1                           | X              |     |         |                   | 5-021005 5-021006                                  | WT112A                        | 10/20/98 0942                        | MEBQF9                                   | MA                 |               |          |                 |
| ECMM3                            | 2                     | L                    | G                         | 1                           | X              |     |         |                   | 5-021009 5-021010                                  | Trip Blank                    | 10/22/98 0902                        |  | MA                 |               |          |                 |
| ECMM2                            | 2                     | L                    | G                         | 5                           |                | X   |         |                   | 5-021008 5-021007                                  | WT112A                        | 10/20/98 0942                        | MEBQF9                                   | MA                 |               |          |                 |
| ECMM4                            | 2                     | L                    | G                         | 1                           | X              |     |         |                   | 5-021013 5-021014                                  | WT114A                        | 10/20/98 1450                        | MEBQF4                                   | MA                 |               |          |                 |
| ECMM4                            | 2                     | L                    | G                         | 5                           |                | X   |         |                   | 5-021015 5-021016                                  | WT114A                        | 10/20/98 1450                        | MEBQF4                                   | MA                 |               |          |                 |

|   |             |  |                               |                                 |
|---|-------------|--|-------------------------------|---------------------------------|
| Shipment for Case Complete? (Y/N) <input checked="" type="checkbox"/> | Page 1 of 1 | Sample(s) to be Used for Laboratory QC | Additional Sampler Signatures | Chain of Custody Seal Number(s) |
|---|-------------|--|-------------------------------|---------------------------------|

CHAIN OF CUSTODY RECORD

|  |                               |  |                              |             |                                  |
|--|-------------------------------|--|------------------------------|-------------|----------------------------------|
| Relinquished by: (Signature) [Signature] | Date / Time 20 Oct 1998 18:00 | Received by: (Signature)                             | Relinquished by: (Signature) | Date / Time | Received by: (Signature)         |
| Relinquished by: (Signature)             | Date / Time                   | Received by: (Signature)                             | Relinquished by: (Signature) | Date / Time | Received by: (Signature)         |
| Relinquished by: (Signature)             | Date / Time                   | Received for Laboratory by: (Signature) John Duffryn | Date / Time 10/21/98         | Remarks 900 | Is custody seal intact? Y/N/none |

DISTRIBUTION: Blue - Region Copy  
White - Lab Copy for Return to Region  
Pink - CLP Copy  
Yellow - Copy for Return to CLASS

EPA Form 9110-2 (2/98)

SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS  
SEE REVERSE FOR PURPOSE CODE DEFINITIONS

380233

11/10/98 R.R. [Signature]



United States Environmental Protection Agency  
Contract Laboratory Program

Inorganic Traffic Report  
& Chain of Custody Record  
(For Inorganic CLP Analysis)

Case No. 2693

|  |              |                                    |                                      |  |                   |  |  |
|--|--------------|------------------------------------|--------------------------------------|--|-------------------|--|--|
| 1. Project Code<br>EAG #<br>D0924 47722-01-3 | Account Code | 2. Region No.<br>5                 | Sampling Co.<br>USACE Omaha District | 4. Date Shipped<br>10/22/98  | Carrier<br>Fed Ex | 6. Matrix (Enter in Column A)<br><br>1. Surface Water<br>2. Ground Water<br>3. Leachate<br>4. Field QC<br>5. Soil/Sediment<br>6. Oil (High only)<br>7. Waste (High only)<br>8. Other (specify in Column A) | 7. Preservative (Enter in Column D)<br><br>1. HCl<br>2. HNO3<br>3. NaOH<br>4. H2SO4<br>5. K2Cr2O7<br>6. Ice only<br>7. Other (specify in Column D)<br>N. Not preserved |
| Regional Information                         |              | 3. Sampler (Name)<br>Marc Anderson |                                      | Airbill Number<br>809200473928   |                   |  |  |
| Non-Superfund Program                        |              | Sampler Signature<br>Marc Anderson |                                      | 5. Ship To<br>SVL Analytical, Inc.<br>One Government Gulch,<br>Kellogg, ID 83837<br>ATTN: Carol Williams |                   |  |  |
| Site Name<br>Hincio Dump Superfund Site      |              | 3. Purpose                         |                                      | Lead   |                   |  |  |
| City, State<br>Elkhart, IN                   |              | Site Spill ID<br>40                |                                      | Early Action   |                   |  |  |
|  |              |                                    |                                      | Long Term Action   |                   |  |  |

| CLP Sample Numbers (from labels) | A Matrix (from Box 6)<br>Other: | B Conc. Low Med High | C Sample Type: Comp./ Grab | D Preservative (from Box 7)<br>Other: | E - RAS Analysis |              |         |         |          |          |           | F Regional Specific Tracking Number or Tag Numbers | G Station Location Identifier | H Mo/Day/Year/Time Sample Collection | I Corresponding CLP Organic Sample No. | J Sampler Initials | K Field QC Qualifier |
|----------------------------------|---------------------------------|----------------------|----------------------------|---------------------------------------|------------------|--------------|---------|---------|----------|----------|-----------|--|-------------------------------|--------------------------------------|--|--------------------|----------------------|
|                                  |                                 |                      |                            |                                       | Diss. Metals     | Total Metals | Cyanide | NO2/NO3 | Fluoride | Low only | High only |  |  |  |  |  |  | Conduct. |
| MEBQJ3                           | 2                               | L                    | G                          | 2                                     | X                |              |         |         |          |          |           | 5-φ21188   | WT119A                        | 10/22/98 0857                        | ECM Q5                                 | MA                 | -                    |
| MEBQJ3                           | 2                               | L                    | G                          | 3                                     |                  | X            |         |         |          |          |           | 5-φ21187   | WT119A                        | 10/22/98 0857                        | ECM Q5                                 | MA                 | -                    |
| MEBQJ3                           | 2                               | L                    | G                          | 2                                     |                  | X            |         |         |          |          |           | 5-φ21194   | WT119A                        | 10/22/98 0857                        | ECM Q5                                 | MA                 | S                    |
| MEBQJ3                           | 2                               | L                    | G                          | 3                                     |                  | X            |         |         |          |          |           | 5-φ21185, 5-φ21186                                 | WT119A                        | 10/22/98 0857                        | ECM Q5                                 | MA                 | S                    |
| MEBQJ4                           | 2                               | L                    | G                          | 2                                     |                  | X            |         |         |          |          |           | 5-φ21193   | WT119A                        | 10/22/98 0857                        | ECM Q9                                 | MA                 | D                    |
| MEBQJ4                           | 2                               | L                    | G                          | 3                                     |                  | X            |         |         |          |          |           | 5-φ21191   | WT119A                        | 10/22/98 0857                        | ECM Q9                                 | MA                 | D                    |
| MEBQJ5                           | 2                               | L                    | G                          | 2                                     |                  | X            |         |         |          |          |           | 5-φ21216   | WT119A                        | 10/22/98 1008                        | ECM R1                                 | MA                 | R                    |
| MEBQJ5                           | 2                               | L                    | G                          | 3                                     |                  | X            |         |         |          |          |           | 5-φ21194   | WT119A                        | 10/22/98 1008                        | ECM R1                                 | MA                 | R                    |

|   |             |  |                               |                                 |
|---|-------------|--|-------------------------------|---------------------------------|
| Shipment for Case Complete? (Y/N) <input checked="" type="checkbox"/> | Page 1 of 1 | Sample(s) to be Used for Laboratory QC<br>5-φ21190<br>5-φ21185<br>5-φ21186 | Additional Sampler Signatures | Chain of Custody Seal Number(s) |
|---|-------------|--|-------------------------------|---------------------------------|

CHAIN OF CUSTODY RECORD

|   |                               |                          |                              |             |                                  |
|---|-------------------------------|--------------------------|------------------------------|-------------|----------------------------------|
| Relinquished by: (Signature)<br>Marc Anderson | Date / Time<br>22 Oct 98 1400 | Received by: (Signature) | Relinquished by: (Signature) | Date / Time | Received by: (Signature)         |
| Relinquished by: (Signature)                  | Date / Time                   | Received by: (Signature) | Relinquished by: (Signature) | Date / Time | Received by: (Signature)         |
| Relinquished by: (Signature)                  | Date / Time                   | Received by: (Signature) | Date / Time                  | Remarks     | Is custody seal intact? Y/N/none |



United States Environmental Protection Agency  
Contract Laboratory Program

**Organic Traffic Report  
& Chain of Custody Record**  
(For Organic CLP Analysis)

Case No.

26593

506 N

ECMMO

|  |  |   |  |   |                          |  |                          |                                      |
|--|--|---|--|---|--------------------------|--|--------------------------|--------------------------------------|
| 1. Matrix (Enter in Column A)<br>1. Surface Water<br>2. Ground Water<br>3. Leachate<br>4. Field QC<br>5. Soil/Sediment<br>6. Oil (High only)<br>7. Waste (High only)<br>8. Other (Specify in Column A) | 2. Preservative (Enter in Column D)<br>1. HCl<br>2. HNO3<br>3. NaHSO4<br>4. H2SO4<br>5. Ice only<br>6. Other (Specify in Column D)<br>N. Not preserved | 2. Region No.<br><b>5</b>                 | 3. Sampling Co.<br><b>USACE Cambridge District</b> | 4. Date Shipped<br><b>10/19/98</b>  | Carrier<br><b>Fed Ex</b> | 6. Date Received -- Received by:<br><b>10/20/98 John Doffinger</b> |                          |                                      |
|  |  | Sampler (Name)<br><b>Marc Anderson</b>    |  | Airbill Number<br><b>1145388565</b>   |                          | Laboratory Contract Number<br><b>68950011</b>                      | Unit Price<br><b>829</b> |                                      |
|  |  | Sampler Signature<br><i>Marc Anderson</i> |  | 5. Ship To<br><b>Industrial Environmental Analysts, Inc<br/>628 Route 10<br/>Whippany, NJ 07981</b>   |                          |  |                          | 7. Transfer to:<br><br>Date Received |
|  |  | 3. Purpose                                |  | <input type="checkbox"/> CLEM<br><input type="checkbox"/> PA<br><input type="checkbox"/> REM<br><input type="checkbox"/> RI<br><input type="checkbox"/> SI<br><input type="checkbox"/> ESI<br><input type="checkbox"/> FS<br><input checked="" type="checkbox"/> RD<br><input checked="" type="checkbox"/> RA<br><input type="checkbox"/> O&M<br><input type="checkbox"/> INPLD |                          |  |                          | Received by                          |

| CLP Sample Numbers (from labels) | A Matrix (from Box 1)<br>Other | B Conc. Low Med High | C Sample Type Comp Grab | D Preservative (from Box 2)<br>Other | E RAS Analysis |     |          |                   | F Regional Specific Tracking Number or Tag Numbers | G Station Location Identifier | H Mo/Day/Year/Time Sample Collection | I Corresponding CLP Inorganic Sample No. | J Sampler Initials | K High Phases |                    |                   |
|----------------------------------|--------------------------------|----------------------|-------------------------|--------------------------------------|----------------|-----|----------|-------------------|--|-------------------------------|--------------------------------------|--|--------------------|---------------|--------------------|-------------------|
|                                  |                                |                      |                         |                                      | VOA            | BNA | Pest/PCB | High only ARO/TOX |  |                               |                                      |  |                    | Soils/Solids  | Water-Miscible Liq | Water-Immils. Liq |
| ECMMO                            | 2                              | L                    | G                       | 5                                    |                | X   |          |                   | 5-885360   | WT102A                        | 10/19/98 1509                        | MESQES                                   | MA                 |               |                    |                   |
| ECMMO                            | 2                              | L                    | G                       | 5                                    |                | X   |          |                   | 5-885361   | WT102A                        | 10/19/98 1509                        | MESQES                                   | MA                 |               |                    |                   |
| ECMMO                            | 2                              | L                    | G                       | 1                                    |                | X   |          |                   | 5-885365 5-885366                                  | WT102A                        | 10/19/98 1504                        | MESQES                                   | MA                 |               |                    |                   |
| ECMMO                            | 2                              | L                    | G                       | 1                                    |                | X   |          |                   | 5-885289 5-885288                                  | WT102A                        | 10/19/98 1504                        | MESQES                                   | MA                 |               |                    |                   |
| ECMMO                            | 2                              | L                    | G                       | 1                                    |                | X   |          |                   | 5-885283 5-885286                                  | WT102A                        | 10/19/98 1509                        | MESQES                                   | MA                 |               |                    |                   |
| ECMMO                            | 2                              | L                    | G                       | 1                                    |                | X   |          |                   | 5-885285 5-885287                                  | WT102A                        | 10/19/98 1509                        | MESQES                                   | MA                 |               |                    |                   |
| ECMMO                            | 2                              | L                    | G                       | 1                                    |                | X   |          |                   | 5-885366 5-885276                                  | Tr. Blank                     | 10/02/98 0700                        |  | MA                 |               |                    |                   |

|                                   |                       |  |                               |                                 |
|-----------------------------------|-----------------------|--|-------------------------------|---------------------------------|
| Shipment for Case Complete? (Y/N) | Page<br><b>1 of 1</b> | Sample(s) to be Used for Laboratory QC<br><b>5-885362 5-885285 5-885283 5-885286<br/>5-885365 5-885289 5-885288 5-885287</b> | Additional Sampler Signatures | Chain of Custody Seal Number(s) |
|-----------------------------------|-----------------------|--|-------------------------------|---------------------------------|

**CHAIN OF CUSTODY RECORD**

|  |                                     |  |                                     |             |                                  |
|--|-------------------------------------|--|-------------------------------------|-------------|----------------------------------|
| Relinquished by: (Signature)<br><i>Marc Anderson</i> | Date / Time<br><b>10/20/98 1900</b> | Received by: (Signature)   | Relinquished by: (Signature)        | Date / Time | Received by: (Signature)         |
| Relinquished by: (Signature)                         | Date / Time                         | Received by: (Signature)   | Relinquished by: (Signature)        | Date / Time | Received by: (Signature)         |
| Relinquished by: (Signature)                         | Date / Time                         | Received for Laboratory by: (Signature)<br><i>John Doffinger</i> | Date / Time<br><b>10/20/98 0900</b> | Remarks     | Is custody seal intact? Y/N/none |

DISTRIBUTION Blue - Region Copy  
White - Lab Copy for Return to Region

Pink - CL Copy  
Yellow - Copy for Return to CLASS

EPA Form 9110-2  
(2/98)

SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS  
SEE REVERSE FOR PURPOSE CODE DEFINITIONS

381273

11/10/98  
E.R.  
REV 10/98



United States Environmental Protection Agency  
Contract Laboratory Program

**Organic Traffic Report  
& Chain of Custody Record**  
(For Organic CLP Analysis)

Case No.

26593

|   |              |  |   |  |                   |   |   |
|---|--------------|--|---|--|-------------------|---|---|
| 1. Project Code<br>FAC<br>D-16747722-01-3 | Account Code | 2. Region No.<br>5   | 3. Sampling Co.<br>USACE Omaha District | 4. Date Shipped<br>10/22/98  | Carrier<br>Fed Ex | 6. Matrix (Enter in Column A)   | 7. Preservative (Enter in Column D)   |
| Regional Information                      |              | Sampler (Name)<br>Marc Anderson  |   | Airbill Number<br>809200473906   |                   | 1. Surface Water<br>2. Ground Water<br>3. Leachate<br>4. Field QC<br>5. Soil/Sediment<br>6. Oil (High only)<br>7. Waste (High only)<br>8. Other (Specify in Column A) | 1. HCl<br>2. HNO3<br>3. NaHSO4<br>4. H2SO4<br>5. Ice only<br>6. Other (Specify in Column D)<br>N. Not preserved |
| Non-Superfund Program                     |              | Sampler Signature<br><i>Marc Anderson</i>  |   | 5. Ship To<br>Industrial Environmental Analysts<br>626 Route 10<br>Whippany, NJ 07981<br>ATTN: Dan Glen  |                   |   |   |
| Site Name<br>Hince Dump Superfund Site    |              | 3. Purpose*  |   | Early Action   |                   |   |   |
| City, State<br>Elkhart, IN                |              | Site Spill ID<br>4J  |   | Lead   |                   |   |   |
|   |              | <input checked="" type="checkbox"/> ISF<br><input type="checkbox"/> PRP<br><input type="checkbox"/> ST<br><input type="checkbox"/> FED |   | <input type="checkbox"/> CLEM<br><input type="checkbox"/> PA<br><input type="checkbox"/> REM<br><input type="checkbox"/> RI<br><input type="checkbox"/> SI<br><input type="checkbox"/> ESI |                   | <input checked="" type="checkbox"/> FS<br><input type="checkbox"/> RD<br><input type="checkbox"/> RA<br><input type="checkbox"/> O&M<br><input type="checkbox"/> NPLD |   |

| CLP Sample Numbers (from labels) | A Matrix (from Box 6)<br>Other: | B Conc.: Low Med High | C Sample Type: Comp. Grab | D Preservative (from Box 7)<br>Other: | E RAS Analysis |     |          |  | F Regional Specific Tracking Number or Tag Numbers | G Station Location Identifier | H Mo/Day/Year/Time Sample Collection | I Corresponding CLP Inorganic Sample No. | J Sampler Initials | K Field QC Qualifier<br>B = Blank S = Spike<br>D = Duplicate<br>A = Pinstate<br>PE = Perform Eval<br>-- = Not a QC Sample |
|----------------------------------|---------------------------------|-----------------------|---------------------------|---------------------------------------|----------------|-----|----------|--|--|-------------------------------|--------------------------------------|--|--------------------|---|
|                                  |                                 |                       |                           |                                       | VOA            | BNA | Pest/PCB | High only<br>ARO/TOX                   |  |                               |                                      |  |                    |   |
| ECM45                            | 2                               | L                     | G                         | 5                                     | X              |     |          | 5-421144, 5-421195                     | WT119A   | 10/22/98 0857                 | MEBQJ3                               | MA                                       | -                  |   |
| ECM45                            | 2                               | L                     | G                         | 5                                     | X              |     |          | 5-421192, 5-421197, 5-421196, 5-421196 | WT119A   | 10/22/98 0857                 | MEBQJ3                               | MA                                       | S                  |   |

|  |                |  |                               |                                 |
|--|----------------|--|-------------------------------|---------------------------------|
| Shipment for Case Complete? (Y/N)<br>Y | Page<br>1 of 1 | Sample(s) to be Used for Laboratory QC<br>5-421192 5-421197<br>5-421196 5-421196 | Additional Sampler Signatures | Chain of Custody Seal Number(s) |
|--|----------------|--|-------------------------------|---------------------------------|

**CHAIN OF CUSTODY RECORD**

|  |                               |   |                              |  |                          |
|--|-------------------------------|---|------------------------------|--|--------------------------|
| Relinquished by: (Signature)<br><i>Marc Anderson</i> | Date / Time<br>22 Oct 98 1400 | Received by: (Signature)                | Relinquished by: (Signature) | Date / Time                              | Received by: (Signature) |
| Relinquished by: (Signature)                         | Date / Time                   | Received by: (Signature)                | Relinquished by: (Signature) | Date / Time                              | Received by: (Signature) |
| Relinquished by: (Signature)                         | Date / Time                   | Received for Laboratory by: (Signature) | Date / Time                  | Remarks Is custody seal intact? Y/N/none |                          |

DISTRIBU

Blue - Region Copy  
White - Lab Copy for Return to Region

Pink - CLASS Copy  
Yellow - Lab Copy for Return to CLASS

EPA Form 9110-2  
(2/98)

SEE REVERSE FOR ADDITIONAL STANDARD INST. IONS  
\*SEE REVERSE FOR PURPOSE CODE DEFINITIONS

A21-012-15 REV.



United States Environmental Protection Agency  
Contract Laboratory Program

**Organic Traffic Report  
& Chain of Custody Record**  
(For Organic CLP Analysis)

Case No. **506**  
**26593** **ECMM**

|  |  |  |   |  |                          |   |                          |
|--|--|--|---|--|--------------------------|---|--------------------------|
| 1. Matrix (Enter in Column A)<br>1. Surface Water<br>2. Ground Water<br>3. Leachate<br>4. Field QC<br>5. Soil/Sediment<br>6. Oil (High only)<br>7. Waste (High only)<br>8. Other (Specify in Column A) | 2. Preservative (Enter in Column D)<br>1. HCl<br>2. HNO3<br>3. NaHSO4<br>4. H2SO4<br>5. Ice only<br>6. Other (Specify in Column D)<br>N. Not preserved | 2. Region No.<br><b>5</b>  | 3. Sampling Co.<br><b>USACE Onyiah District</b> | 4. Date Shipped<br><b>10/21/98</b>   | Carrier<br><b>Fed Ex</b> | 6. Date Received -- Received by:<br><b>10/22/98 J DaFryer</b> |                          |
|  |  | Sampler (Name)<br><b>Max Anderson</b>  |   | Airbill Number<br><b>809200471708</b>  |                          | Laboratory Contract Number<br><b>68050011</b>                 | Unit Price<br><b>869</b> |
|  |  | Sampler Signature<br><i>Max Anderson</i>   |   | 5. Ship To<br><b>Industrial Environmental Analyst<br/>628 Route 10<br/>Whippany, NJ 07981</b>  |                          | 7. Transfer to:<br>Received by:<br>Contract Number<br>Price   |                          |
| 3. Purpose   |  | <input type="checkbox"/> CLEM<br><input type="checkbox"/> PA<br><input type="checkbox"/> REM<br><input type="checkbox"/> RI<br><input type="checkbox"/> SI<br><input type="checkbox"/> ESI |   | <input type="checkbox"/> FS<br><input checked="" type="checkbox"/> XRD<br><input type="checkbox"/> RA<br><input type="checkbox"/> O&M<br><input type="checkbox"/> NPLD |                          | Date Received   |                          |

| CLP Sample Numbers (from labels) | A Matrix (from Box 1)<br>Other: | B Conc. Low Med High | C Sample Type: Comp Grab | D Preservative (from Box 2)<br>Other: | E RAS Analysis |              |                                  | F Regional Specific Tracking Number or Tag Numbers | G Station Location Identifier | H Mo/Day/Year/Time Sample Collection | I Corresponding CLP Inorganic Sample No. | J Sample Initials | K High Phases |                     |                   |
|----------------------------------|---------------------------------|----------------------|--------------------------|---------------------------------------|----------------|--------------|----------------------------------|--|-------------------------------|--------------------------------------|--|-------------------|---------------|---------------------|-------------------|
|                                  |                                 |                      |                          |                                       | VOA            | BNA          | High only<br>Pest/PCB<br>ARO/TOX |  |                               |                                      |  |                   | Solids        | Water: Miscible Liq | Water: Immis. Liq |
| ECMMS                            | 2                               | L                    | G                        | 1                                     | X              |              |                                  | 5-φ21198, 5-φ21199                                 | WT101A                        | 10/21/98 0835                        | MEBQ F2                                  | MA                |               |                     |                   |
| ECMMS                            | 2                               | L                    | G                        | 5                                     |                | X            |                                  | 5-φ21203, 5-φ21204                                 | WT101A                        | 10/21/98 0835                        | MEBQ F2                                  | MA                |               |                     |                   |
| ECMQ1                            | 2                               | L                    | G                        | 1                                     |                | X            |                                  | 5-φ21208, 5-φ21210                                 | WT101A                        | 10/21/98 0835                        | MEBQ F1                                  | MA                |               |                     |                   |
| ECMQ1                            | 2                               | L                    | G                        | 5                                     |                | X            |                                  | 5-φ21211, 5-φ21212                                 | WT101A                        | 10/21/98 0835                        | MEBQ F1                                  | MA                |               |                     |                   |
| ECMQ1                            | 2                               | L                    | G                        | 1                                     |                | X            |                                  | 5-φ21206, 5-φ21202                                 | Trip Blank                    | 10/21/98 0830                        |  | MA                |               |                     |                   |
| ECMQ2                            | 2                               | L                    | G                        | 1                                     |                | X            |                                  | 5-φ21040, 5-φ21043                                 | WT115A                        | 10/21/98 1140                        | MEBQ F3                                  | MA                |               |                     |                   |
| ECMQ2                            | 2                               | L                    | G                        | 5                                     |                | X            |                                  | 5-φ21044, 5-φ21045                                 | WT115A                        | 10/21/98 1140                        | MEBQ F3                                  | MA                |               |                     |                   |
| ECMQ3                            | 2                               | L                    | G                        | 1                                     |                | X            |                                  | 5-φ21048, 5-φ21049                                 | WT115A                        | 10/21/98 1210                        | MEBQ J1                                  | MA                |               |                     |                   |
| <del>ECMQ5</del>                 | <del>2</del>                    | <del>L</del>         | <del>G</del>             | <del>5</del>                          | <del></del>    | <del>X</del> |                                  | <del>5-φ21066, 5-φ21067</del>                      | <del>WT115A</del>             | <del>10/21/98 1210</del>             | <del>MEBQ J1</del>                       | <del>MA</del>     |               |                     |                   |
| ECMQ4                            | 2                               | L                    | G                        | 1                                     |                | X            |                                  | 5-φ21103, 5-φ21104                                 | WT101A                        | 10/21/98 1512                        | MEBQ J2                                  | MA                |               |                     |                   |

Shipment for Case Complete? (Y/N) **(Y)** Page **1** of **1** Sample(s) to be Used for Laboratory QC Additional Sampler Signatures Chain of Custody Seal Number(s)

**CHAIN OF CUSTODY RECORD**

|   |                                     |  |                                    |             |                                  |
|---|-------------------------------------|--|------------------------------------|-------------|----------------------------------|
| Relinquished by: (Signature)<br><i>Max Anderson</i> | Date / Time<br><b>10/21/98 1900</b> | Received by: (Signature)                                       | Relinquished by: (Signature)       | Date / Time | Received by: (Signature)         |
| Relinquished by: (Signature)                        | Date / Time                         | Received by: (Signature)                                       | Relinquished by: (Signature)       | Date / Time | Received by: (Signature)         |
| Relinquished by: (Signature)                        | Date / Time                         | Received for Laboratory by: (Signature)<br><i>John DaFryer</i> | Date / Time<br><b>10/22/98 900</b> | Remarks     | Is custody seal intact? Y/N/none |

380237

**Appendix I-3**  
**1998 Soil Gas Analytical Results**



United States Environmental Protection Agency  
Contract Laboratory Program

### Organic Traffic Report & Chain of Custody Record (For Organic CLP Analysis)

Case No.

26593

|   |              |  |                                     |   |                   |  |  |
|---|--------------|--|-------------------------------------|---|-------------------|--|--|
| 1. Project Code<br>446 #<br>D-10947722-01-3 | Account Code | 2. Region No.<br>5   | Sampling Co.<br>USHE Omaha District | 4. Date Shipped<br>10/22/98   | Carrier<br>Fed Ex | 6. Matrix (Enter in Column A)<br><br>1. Surface Water<br>2. Ground Water<br>3. Leachate<br>4. Field QC<br>5. Soil/Sediment<br>6. Oil (High only)<br>7. Waste (High only)<br>8. Other (Specify in Column A) | 7. Preservative (Enter in Column D)<br><br>1. HCl<br>2. HNO3<br>3. NaHSO4<br>4. H2SO4<br>5. Ice only<br>6. Other (Specify in Column D)<br>N. Not preserved |
| Regional Information                        |              | 3. Sampler (Name)<br>Marc Anderson   |                                     | Airbill Number<br>809200473917  |                   |  |  |
| Non-Superfund Program                       |              | 3. Purpose:<br>Lead <input checked="" type="checkbox"/> SF<br><input type="checkbox"/> PRP<br><input type="checkbox"/> ST<br><input type="checkbox"/> FED<br>Early Action<br><input type="checkbox"/> CLEM<br><input type="checkbox"/> PA<br><input type="checkbox"/> REM<br><input type="checkbox"/> RI<br><input type="checkbox"/> SI<br><input type="checkbox"/> ESI<br>Long-Term Action<br><input checked="" type="checkbox"/> FS<br><input type="checkbox"/> RD<br><input type="checkbox"/> RA<br><input type="checkbox"/> O&M<br><input type="checkbox"/> NPLD |                                     | 5. Ship To<br>Industrial Environmental Analysts<br>628 Route 10<br>Whippany, NJ 07981<br>ATTN: Dan Glen |                   |  |  |
| Site Name<br>Himes Dump Superfund Site      |              | Site Spill ID<br>45  |                                     | City, State<br>Elkhart, IN  |                   |  |  |

| CLP Sample Numbers (from labels) | A Matrix (from Box G)<br>Other: | B Conc.: Low Med High | C Sample Type: Comp. Grab | D Preservative (from Box 7)<br>Other: | E RAS Analysis |     |                                      | F Regional Specific Tracking Number or Tag Numbers | G Station Location Identifier | H Mo/Day/Year/Time Sample Collection | I Corresponding CLP Inorganic Sample No. | J Sampler Initials | K Field QC Qualifier<br>B = Blank S = Spike<br>D = Duplicate<br>R = Retest<br>PE = Perform Eval<br>- = Not a QC Sample |
|----------------------------------|---------------------------------|-----------------------|---------------------------|---------------------------------------|----------------|-----|--------------------------------------|--|-------------------------------|--------------------------------------|--|--------------------|--|
|                                  |                                 |                       |                           |                                       | VOC            | BNA | Pest/PCB<br>High only<br>ARO/<br>TOX |  |                               |                                      |  |                    |  |
| ECM Q5                           | 2                               | L                     | G                         | 1                                     | X              |     |                                      | 5-φ21141, 5-φ21142                                 | WT119A                        | 10/24/98 0857                        | MEBQJ3                                   | MA                 | -  |
| ECM Q5                           | 2                               | L                     | G                         | 1                                     | X              |     |                                      | 5-φ21143, 5-φ21148<br>5-φ21147, 5-φ21147           | WT119A                        | 10/22/98 0857                        | MEBQJ3                                   | MA                 | S  |
| ECM Q9                           | 2                               | L                     | G                         | 1                                     | X              |     |                                      | 5-φ21192, 5-φ21218                                 | WT119A                        | 10/22/98 0857                        | MEBQJ4                                   | MA                 | D  |
| ECM R1                           | 2                               | L                     | G                         | 1                                     | X              |     |                                      | 5-φ21144, 5-φ21163                                 | WT119A                        | 10/22/98 1008                        | MEBQJ5                                   | MA                 | B  |
| ECM R0                           | 2                               | L                     | G                         | 1                                     | X              |     |                                      | 5-φ21183, 5-φ21184                                 | Trig Blank                    | 10/02/98 0820                        |  | MA                 | B  |
| ECM U9                           | 2                               | L                     | G                         | 5                                     |                | X   |                                      | 5-φ21149, 5-φ21189                                 | WT119A                        | 10/22/98 0857                        | MEBQJ4                                   | MA                 | D  |
| ECM R1                           | 2                               | L                     | G                         | 5                                     |                | X   |                                      | 5-φ21214, 5-φ21215                                 | WT119A                        | 10/22/98 1009                        | MEBQJ5                                   | MA                 | R  |

|  |                |  |                               |                                 |
|--|----------------|--|-------------------------------|---------------------------------|
| Shipment for Case Complete? (Y/N)<br>Y | Page<br>1 of 1 | Sample(s) to be Used for Laboratory QC<br>5-φ21143 5-φ21148<br>5-φ21147 5-φ21147 | Additional Sampler Signatures | Chain of Custody Seal Number(s) |
|--|----------------|--|-------------------------------|---------------------------------|

#### CHAIN OF CUSTODY RECORD

|   |                               |   |                              |             |                                  |
|---|-------------------------------|---|------------------------------|-------------|----------------------------------|
| Relinquished by: (Signature)<br>Marc Anderson | Date / Time<br>22 Oct 98 1400 | Received by: (Signature)                | Relinquished by: (Signature) | Date / Time | Received by: (Signature)         |
| Relinquished by: (Signature)                  | Date / Time                   | Received by: (Signature)                | Relinquished by: (Signature) | Date / Time | Received by: (Signature)         |
| Relinquished by: (Signature)                  | Date / Time                   | Received for Laboratory by: (Signature) | Date / Time                  | Remarks     | Is custody seal intact? Y/N/none |

DISTRIBUTION: Blue - Region Copy  
White - Lab Copy for Return to Region

Pin. CLASS Copy  
Yellow - Lab Copy for Return to CLASS

EPA Form 911L  
(2/98)

SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS  
\*SEE REVERSE FOR PURPOSE CODE DEFINITIONS

Case Number : 9811284  
Site Name: Himco Dump

SDG Number:  
Laboratory: AIR TOXICS LTD

Below is a summary of the out-of-control audits and the possible effects on the data for this case:

10 VOST cartridges (7205 A&B, 7113 A&B, 7116 A&B, 7106 A&B, 7122 A&B, 7104 A&B, 7123 A&B, 7203 A&B, 7215 A&B, 7201A&B) were collected on 11/16/98. The lab received the samples on 11/17/98 in good condition. All samples were analyzed for the list of volatile analytes. All samples were analyzed following SW846 Methods 5041A/8260B (dissolved gases).

All sample analysis were performed within the technical holding time of fourteen (14) day after sample collection; therefore, the results are acceptable.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION V

DATE: \_\_\_\_\_

SUBJECT: Review of Data  
Received for Review on April 20, 1999

FROM: Stephen L. Ostrodka, Chief (SRT-4J)  
Superfund Technical Support Section

*per Steve Ostrodka  
Richard J. Byrnie  
5/6/99*

TO: Data User: U.S. Army Corps Of Engineers

We have reviewed the data for the following case:

Site name: Himco Dump

Case number: 9811284 SDG Number: \_\_\_\_\_

Number and Type of Samples: 10 VOST cartridges

Sample Numbers: (7205, 7113, 7116, 7106, 7122, 7104, 7123, 7203, 7215, 7201) A&B

Laboratory: AIR TOXICS LTD. Hrs. for Review: 14 hrs

Following are our findings:

*All data is usable and acceptable with the  
qualification described in its attached narrative.  
Richard J. Byrnie*

CC: Cecilia Moore  
Region 5 TPO  
Mail Code: SM-5J

Case Number : 9811284  
Site Name: Himco Dump

SDG Number:  
Laboratory: AIR TOXICS LTD

#### 8.INTERNAL STANDARDS

The internal standard area counts and retention times were within the QC limits. Therefore, the results are acceptable.

#### 9.COMPOUND IDENTIFICATION

The target compounds and TICs for the samples were properly identified.

#### 10.COMPOUND QUANTITATION AND REPORTED DETECTION LIMITS

The Volatile Target Compounds (TCLs) and Tentative Identified Compounds (TICs) were properly quantitated; therefore, the data are acceptable.

#### 11.SYSTEM PERFORMANCE

GC/MS baseline indicated acceptable performance.

#### 12.ADDITIONAL INFORMATION

Tetrachloroethene for sample 7203 A&B; tetrachloroethene, vinyl chloride and trichloroethene for sample 7113 A&B were quantitated out side the calibration range but no additional dilution was analyzed. The results for tetrachloroethene for sample 7203 A&B; tetrachloroethene, vinyl chloride and trichloroethene for sample 7113 A&B are estimated (J).

Case Number : 9811284  
Site Name: Himco Dump

SDG Number:  
Laboratory: AIR TOXICS LTD

## 1. HOLDING TIME

Ten VOST cartridges samples (7205 A&B, 7113 A&B, 7116 A&B, 7106 A&B, 7122 A&B, 7104 A&B, 7123 A&B, 7203 A&B, 7215 A&B, 7201A&B) were collected on 11/16/98. The lab received the samples on 11/17/98 in good condition on 11/17/98. The samples were analyzed for Volatile analytes (dissolved gases) following SW846 Methods 5041A/8260B.

All sample analyses were performed within the technical holding time of fourteen (14) day after sample collection; therefore, the results are acceptable.

## 2. GC/MS TUNING PERFORMANCE AND GC PERFORMANCE

All GC/MS tuning complied with the mass list and ion abundance criteria for BFB, and all samples were analyzed within the twelve (12) hour periods for instrument performance checks.

## 3. CALIBRATION

Initial and continuing calibration standards of VOA were evaluated for the Target Compounds List (TCLs) and outliers were recorded on the outlier forms included as a part of this narrative.

## 4. METHOD BLANK

9811284-11A, 9811284-11B and 9811284-11C are the method blanks. 9811284-11B contains bromomethane at 11 ng. Bromomethane is not a common laboratory contamination. The present of bromomethane in the associated samples is flagged as non-detected (U) when the sample results are less than 5X the blank result. Please refer to the outlier forms for the list of associated samples.

## 5. SURROGATE RECOVERIES

All samples were analyzed at the dilution and benzene-d<sub>6</sub> was reported as one of the five surrogates. No recovery for Benzene-d<sub>6</sub> was reported for the blanks. No indication in the method or laboratory narrative why benzene-d<sub>6</sub> was reported as surrogate for the diluted samples but not the blanks.

The recovery of 4-bromofluorobenzene of sample 7123 A&B and 1,2-dichloroethane of method blank 9811284-11B were above was above QC limit (78-119%). The positive results for sample in sample 7123 A&B and the blank 9811284-11B should be considered estimated "J", and no qualification for the non-detected.

## 6. LABORATORY CONTROL SAMPLES

The recoveries of acetone, carbon disulfide, 2-butanone and 2-hexanone for the laboratory control sample (LCS) were above the QC limits. No qualification is recommended for the sample results base on the LCS results.

## 7. FIELD BLANK AND FIELD DUPLICATE

There were no sample specified as a field blank or field duplicate in this data

Prepared By: Steffanie Tobin (Lockheed/ESAT)  
Date: April 20, 1999

**CALIBRATION OUTLIERS  
VOLATILE TCL COMPOUNDS**  
(Page 1 of 1)

CASE/SAS#: PRP  
COLUMN: \_\_\_\_\_  
HEATED PURGE (Y/N): Y

LABORATORY: Air Toxics UD  
SITE NAME: Hima Dump

| Instrument#                | Initial Cal. |            |      |      | Contin. Cal. |       |    |   | Contin. Cal. |    |   |    | Contin. Cal. |   |    |    |
|----------------------------|--------------|------------|------|------|--------------|-------|----|---|--------------|----|---|----|--------------|---|----|----|
|                            | Date/Time    | #          | rf   | %rsd | #            | rf    | %d | # | rf           | %d | # | rf | %d           | # | rf | %d |
| Chloromethane              | 0.01         |            |      |      |              |       |    |   |              |    |   |    |              |   |    |    |
| Bromomethane               | 0.10         | 0.411      |      |      | 0.154        | 52.7  | J  |   |              |    |   |    |              |   |    |    |
| Vinyl chloride             | 0.10         |            |      |      |              |       |    |   |              |    |   |    |              |   |    |    |
| Chloroethane               | 0.01         |            |      |      |              |       |    |   |              |    |   |    |              |   |    |    |
| Methylene chloride         | 0.01         |            |      |      |              |       |    |   |              |    |   |    |              |   |    |    |
| Acetone                    | 0.01         | 0.007      |      |      | 0.141        | 10.17 | J  |   |              |    |   |    |              |   |    |    |
| Carbon disulfide           | 0.01         |            |      |      |              |       |    |   |              |    |   |    |              |   |    |    |
| 1,1-Dichloroethene         | 0.10         |            |      |      |              |       |    |   |              |    |   |    |              |   |    |    |
| 1,1-Dichloroethane         | 0.20         |            |      |      |              |       |    |   |              |    |   |    |              |   |    |    |
| 1,2-Dichloroethene (total) |              |            |      |      |              |       |    |   |              |    |   |    |              |   |    |    |
| Chloroform                 | 0.20         |            |      |      |              |       |    |   |              |    |   |    |              |   |    |    |
| 1,2-Dichloroethane         | 0.10         |            |      |      |              |       |    |   |              |    |   |    |              |   |    |    |
| 2-Butanone                 | 0.01         | 0.009      |      |      | 0.016        | 73.5  | J  |   |              |    |   |    |              |   |    |    |
| 1,1,1-Trichloroethane      | 0.10         |            |      |      |              |       |    |   |              |    |   |    |              |   |    |    |
| Carbon tetrachloride       | 0.10         |            |      |      |              |       |    |   |              |    |   |    |              |   |    |    |
| Bromodichloromethane       | 0.20         |            |      |      |              |       |    |   |              |    |   |    |              |   |    |    |
| 1,2-Dichloropropane        |              |            |      |      |              |       |    |   |              |    |   |    |              |   |    |    |
| cis-1,3-Dichloropropene    | 0.20         |            |      |      |              |       |    |   |              |    |   |    |              |   |    |    |
| Trichloroethene            | 0.30         |            |      |      |              |       |    |   |              |    |   |    |              |   |    |    |
| Dibromochloromethane       | 0.10         | 0.747      |      |      | 0.975        | -30.5 | J  |   |              |    |   |    |              |   |    |    |
| 1,1,2-Trichloroethane      | 0.10         |            |      |      |              |       |    |   |              |    |   |    |              |   |    |    |
| Benzene                    | 0.50         |            |      |      |              |       |    |   |              |    |   |    |              |   |    |    |
| trans-1,3-Dichloropropene  | 0.10         |            |      |      |              |       |    |   |              |    |   |    |              |   |    |    |
| Bromoform                  | 0.10         | 0.018      |      |      | 0.053        | -42.3 | J  |   |              |    |   |    |              |   |    |    |
| 4-Methyl-2-pentanone       | 0.01         | 0.021      | 2.64 | J    |              |       |    |   |              |    |   |    |              |   |    |    |
| 2-Hexanone                 | 0.01         | 0.124      |      |      | 0.193        | 49.0  | J  |   |              |    |   |    |              |   |    |    |
| Tetrachloroethene          | 0.20         |            |      |      |              |       |    |   |              |    |   |    |              |   |    |    |
| 1,1,2,2-Tetrachloroethane  | 0.50         |            |      |      |              |       |    |   |              |    |   |    |              |   |    |    |
| Toluene                    | 0.40         |            |      |      |              |       |    |   |              |    |   |    |              |   |    |    |
| Chlorobenzene              | 0.50         |            |      |      |              |       |    |   |              |    |   |    |              |   |    |    |
| Ethylbenzene               | 0.10         |            |      |      |              |       |    |   |              |    |   |    |              |   |    |    |
| Styrene                    | 0.30         |            |      |      |              |       |    |   |              |    |   |    |              |   |    |    |
| Styrene (total)            | 0.30         |            |      |      |              |       |    |   |              |    |   |    |              |   |    |    |
| Toluene-d8                 |              |            |      |      |              |       |    |   |              |    |   |    |              |   |    |    |
| Bromofluorobenzene         | 0.20         |            |      |      |              |       |    |   |              |    |   |    |              |   |    |    |
| 1,2-Dichloroethane-d4      |              |            |      |      |              |       |    |   |              |    |   |    |              |   |    |    |
| Samples affected:          |              | 7116 A+B   |      |      | 7106 A+B     |       |    |   |              |    |   |    |              |   |    |    |
|                            |              | 9811284-1B |      |      | 7122 A+B     |       |    |   |              |    |   |    |              |   |    |    |
|                            |              |            |      |      | 7104 A+B     |       |    |   |              |    |   |    |              |   |    |    |
|                            |              |            |      |      | 7123 A+B     |       |    |   |              |    |   |    |              |   |    |    |
|                            |              |            |      |      | 7203 A+B     |       |    |   |              |    |   |    |              |   |    |    |
|                            |              |            |      |      | 7215 A+B     |       |    |   |              |    |   |    |              |   |    |    |
|                            |              |            |      |      | 7201 A+B     |       |    |   |              |    |   |    |              |   |    |    |
|                            |              |            |      |      | 9811284-11C  |       |    |   |              |    |   |    |              |   |    |    |

Reviewer's Init/Date: 4/19/99

J/R = All positive results are estimated "J" and non-detected results are unusable "R"

- \* = These flags should be applied to the analytes on the sample data sheets.
- # = Minimum Relative Response Factor

**CALIBRATION OUTLIERS  
VOLATILE TCL COMPOUNDS**  
(Page 1 of 1)

CASE/SAS#: IRP  
 COLUMN: \_\_\_\_\_  
 DATED PURGE (Y/N): \_\_\_\_\_

LABORATORY: AT TOXICS LTD  
 SITE NAME: Limco Dump

| Instrument#                | Date/Time: | Initial Cal. |    |     | Contin. Cal. |    |    | Contin. Cal. |    |    | Contin. Cal. |    |    | Contin. Cal. |    |    |   |
|----------------------------|------------|--------------|----|-----|--------------|----|----|--------------|----|----|--------------|----|----|--------------|----|----|---|
|                            |            | #            | rf | %rd | *            | rf | %d | * | rf | %d | * | rf | %d | * | rf | %d | * |
| Chloromethane              | 0.01       |              |    |     |              |    |    |              |    |    |              |    |    |              |    |    |   |
| Bromomethane               | 0.10       |              |    |     |              |    |    |              |    |    |              |    |    |              |    |    |   |
| Vinyl chloride             | 0.10       |              |    |     |              |    |    |              |    |    |              |    |    |              |    |    |   |
| Chloroethane               | 0.01       |              |    |     |              |    |    |              |    |    |              |    |    |              |    |    |   |
| Methylene chloride         | 0.01       |              |    |     |              |    |    |              |    |    |              |    |    |              |    |    |   |
| Acetone                    | 0.01       |              |    |     |              |    |    |              |    |    |              |    |    |              |    |    |   |
| Carbon disulfide           | 0.01       |              |    |     |              |    |    |              |    |    |              |    |    |              |    |    |   |
| 1,1-Dichloroethene         | 0.10       |              |    |     |              |    |    |              |    |    |              |    |    |              |    |    |   |
| 1,1-Dichloroethane         | 0.20       |              |    |     |              |    |    |              |    |    |              |    |    |              |    |    |   |
| 1,2-Dichloroethene (total) |            |              |    |     |              |    |    |              |    |    |              |    |    |              |    |    |   |
| Chloroform                 | 0.20       |              |    |     |              |    |    |              |    |    |              |    |    |              |    |    |   |
| 1,2-Dichloroethane         | 0.10       |              |    |     |              |    |    |              |    |    |              |    |    |              |    |    |   |
| 2-Butanone                 | 0.01       |              |    |     |              |    |    |              |    |    |              |    |    |              |    |    |   |
| 1,1,1-Trichloroethane      | 0.10       |              |    |     |              |    |    |              |    |    |              |    |    |              |    |    |   |
| Carbon tetrachloride       | 0.10       |              |    |     |              |    |    |              |    |    |              |    |    |              |    |    |   |
| Bromodichloromethane       | 0.20       |              |    |     |              |    |    |              |    |    |              |    |    |              |    |    |   |
| 1,2-Dichloropropane        |            |              |    |     |              |    |    |              |    |    |              |    |    |              |    |    |   |
| cis-1,3-Dichloropropene    | 0.20       |              |    |     |              |    |    |              |    |    |              |    |    |              |    |    |   |
| Trichloroethene            | 0.30       |              |    |     |              |    |    |              |    |    |              |    |    |              |    |    |   |
| Dibromochloromethane       | 0.10       |              |    |     |              |    |    |              |    |    |              |    |    |              |    |    |   |
| 1,1,2-Trichloroethane      | 0.10       |              |    |     |              |    |    |              |    |    |              |    |    |              |    |    |   |
| Benzene                    | 0.50       |              |    |     |              |    |    |              |    |    |              |    |    |              |    |    |   |
| trans-1,3-Dichloropropene  | 0.10       |              |    |     |              |    |    |              |    |    |              |    |    |              |    |    |   |
| Bromoform                  | 0.10       |              |    |     |              |    |    |              |    |    |              |    |    |              |    |    |   |
| 4-Methyl-2-pentanone       | 0.01       |              |    |     |              |    |    |              |    |    |              |    |    |              |    |    |   |
| 2-Hexanone                 | 0.01       |              |    |     |              |    |    |              |    |    |              |    |    |              |    |    |   |
| Tetrachloroethene          | 0.20       |              |    |     |              |    |    |              |    |    |              |    |    |              |    |    |   |
| 1,1,2,2-Tetrachloroethane  | 0.50       |              |    |     |              |    |    |              |    |    |              |    |    |              |    |    |   |
| Toluene                    | 0.40       |              |    |     |              |    |    |              |    |    |              |    |    |              |    |    |   |
| Chlorobenzene              | 0.50       |              |    |     |              |    |    |              |    |    |              |    |    |              |    |    |   |
| Ethylbenzene               | 0.10       |              |    |     |              |    |    |              |    |    |              |    |    |              |    |    |   |
| Styrene                    | 0.30       |              |    |     |              |    |    |              |    |    |              |    |    |              |    |    |   |
| Xylene (total)             | 0.30       |              |    |     |              |    |    |              |    |    |              |    |    |              |    |    |   |
| Toluene-d8                 |            |              |    |     |              |    |    |              |    |    |              |    |    |              |    |    |   |
| Bromofluorobenzene         | 0.20       |              |    |     |              |    |    |              |    |    |              |    |    |              |    |    |   |
| 1,2-Dichloroethane-d4      |            |              |    |     |              |    |    |              |    |    |              |    |    |              |    |    |   |
| Samples affected:          |            |              |    |     |              |    |    |              |    |    |              |    |    |              |    |    |   |
|                            |            |              |    |     |              |    |    |              |    |    |              |    |    |              |    |    |   |
|                            |            |              |    |     |              |    |    |              |    |    |              |    |    |              |    |    |   |
|                            |            |              |    |     |              |    |    |              |    |    |              |    |    |              |    |    |   |
|                            |            |              |    |     |              |    |    |              |    |    |              |    |    |              |    |    |   |
|                            |            |              |    |     |              |    |    |              |    |    |              |    |    |              |    |    |   |
|                            |            |              |    |     |              |    |    |              |    |    |              |    |    |              |    |    |   |
|                            |            |              |    |     |              |    |    |              |    |    |              |    |    |              |    |    |   |
|                            |            |              |    |     |              |    |    |              |    |    |              |    |    |              |    |    |   |
|                            |            |              |    |     |              |    |    |              |    |    |              |    |    |              |    |    |   |
|                            |            |              |    |     |              |    |    |              |    |    |              |    |    |              |    |    |   |

Reviewer's Init/Date: 4/19/99

J/R = All positive results are estimated "J" and non-detected results are unusable "R"  
 \* = These flags should be applied to the analytes on the sample data sheets.  
 # = Minimum Relative Response Factor

Regional Transmittal Form

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION V

DATE:

SUBJECT: Review of Data  
Received for Review on 15 APRIL 1999

FROM: Stephen L. Ostrodka, Chief (HSRL-5J) *for Steve Ostrodka*  
Superfund Technical Support Section *Richard L Bynik*

TO: Data User: U.S. ARMY CORPS / ENGS. *5/6/99*

We have reviewed the data for the following case:

SITE NAME: HIMCO DUMP

CASE NUMBER: DACWAS-99-P-009 SDG NUMBER: 7701A & B

Number and Type of Samples: 9 TENAX TUBE DIS. GAS

Sample Numbers: 7701A-B, 7702A-B, 7704A-B, 7710A-B, 7711A-B, 7712A-B,  
7719A-B, 7721A-B, 7724A-B

Laboratory: AIR TOXICS LTD Hrs. for Review: \_\_\_\_\_

Following are our findings:

*The data is usable and acceptable with the  
qualifications described in the attached narrative.  
Richard L Bynik*

CC: Cecilia Moore  
Region 5 TPO  
Mail Code: SM-5J

## ORGANIC DATA QUALIFIER DEFINITIONS

For the purpose of defining the flagging nomenclature used in this document, the following code letters and associated definitions are provided:

**VALUE** - when/if the result of a value is greater than or equal to the Contract Required Quantitation Limit (CRQL).

- U** Indicates that the compound was analyzed for, but not detected. The sample quantitation limit corrected for dilution and percent moisture is reported.
- J** Indicates an estimated value. This flag is used either when estimating a concentration for a tentatively identified compound or when the data indicates the presence of a compound where the result is less than the sample quantitation limit, but greater than zero. The flag is also used to indicate a reported result having an associated QC problem.
- R** Indicates the data are unusable. (NOTE: The analyte may or may not be present.)
- N** Indicates presumptive evidence of a compound. This flag is only used for a tentatively identified compound, where the identification is based on a mass spectral library search.
- P** Indicates a pesticide/Aroclor target analyte when there is greater than 25% difference for the detected concentrations between the two GC columns. The lower of the two results is reported.
- C** Indicates pesticide results that have been confirmed by GC/MS.
- B** Indicates the analyte is detected in the associated blank as well as in the sample.
- E** Indicates compounds whose concentrations exceed the calibration range of the instrument.
- D** Indicates an identified compound in an analysis has been diluted. This flag alerts the data user to any differences between the concentrations reported in the two analysis.
- A** Indicates tentatively identified compounds that are suspected to be aldol condensation products.
- G** Indicates the TCLP Matrix Spike Recovery was greater than the upper limit of the analytical method.
- L** Indicates the TCLP Matrix Spike Recovery was less than the lower limit of the analytical method.
- T** Indicates the analyte is found in the associated TCLP extraction blank as well as in the sample.

X,Y,Z are reserved for laboratory defined flags.

## NARRATIVE

Page 2 of 5

Laboratory: @AIR TOXICS LTD.  
Site: HIMCO DUMP

Case: DACW45-99-P-0094  
SDG: 7701 A&B

### 1. HOLDING TIME

Nine (9) VOST cartridge samples, numbered 7701 A&B, 7702 A&B, 7704 A&B, 7710 A&B, 7711 A&B, 7712 A&B, 7719 A&B, 7721 A&B, and 7724 A&B, were collected on December 10, 1998. The lab received the samples on December 11, 1998 in good condition. All samples were analyzed for the full list of volatile organic analytes. All were analyzed according to SWA48 method 5041A/8260B.

The VOA analyses were performed within the technical holding times of 14 days after sample collection; therefore, the results are acceptable.

### 2. GC/MS TUNING AND INSTRUMENT PERFORMANCE

All GC/MS tuning complied with mass list and ion abundance criteria for BFB, and all samples were analyzed within the twelve (12) hour periods for instrument performance checks.

### 3. CALIBRATION

Initial and continuing calibrations of the Volatile standards were evaluated for the target compound list and outliers are recorded on the forms included as part of this narrative.

### 4. BLANKS

Lab Blank is the method and instrument blank associated with this data case in accordance with the analysis method. Lab Blank contained *Bromoform* at 20 ng and no TICs. The presence of *Bromoform* in the samples associated with Lab Blank is flagged as non-detected (U) when the concentration is less than (<) five (5) times the blank result.

### 5. SYSTEM MONITORING COMPOUND AND SURROGATE RECOVERY

The volatile system monitoring compounds were within QC required limits for recovery and retention time; with the exception of:

The recovery of 4-Bromofluorobenzene was out of range high

Reviewed by: Thomas Sedlacek Lockheed Martin/ESAT  
Date: April 20, 1999

## NARRATIVE

Laboratory: @AIR TOXICS LTD.  
Site: HIMCO DUMP

Page 1 of 5  
Case: DACW45-99-P-0094  
SDG: 7701 A&B

Below is a summary of the out-of-control audits and possible effects on the data for this Case/SDG:

Nine (9) VOST cartridge samples, numbered 7701 A&B, 7702 A&B, 7704 A&B, 7710 A&B, 7711 A&B, 7712 A&B, 7719 A&B, 7721 A&B, and 7724 A&B, were collected on December 10, 1998. The lab received the samples on December 11, 1998 in good condition. All samples were analyzed for the full list of volatile organic analytes. All were analyzed according to SWA48 method 5041A/8260B.

The VOA analyses were performed within the technical holding times of 14 days after sample collection; therefore, the results are acceptable.

Reviewed by: Thomas Sedlacek Lockheed Martin/RSAT  
Date: April 20, 1999

NARRATIVE

Page 4 of 5

Laboratory: @AIR TOXICS LTD.  
Site: HIMCO DUMP

Case: DACW45-99-P-0094  
SDG: 7701 A&B

In sample 7721 A&B, the value for tetrachloroethene exceeded the calibration range, and there is a possible cartridge overload of the VOST cartridge.

In sample 7724 A&B, the value for tetrachloroethene exceeded the calibration range, and there is a possible cartridge overload of the VOST cartridge.

In sample 7719 A&B, the value for tetrachloroethene and trichloroethene exceeded the calibration range, and there is a probable cartridge overload of the VOST cartridge. The lab reported that the peak for tetrachloroethene saturated the mass spectrometer, the value is therefore basis low.

In sample 7702 A&B, the value for 1,1,1-trichloroethane exceeded the calibration range.

The collection and analysis method does not provide for re-analysis of submitted samples. The use of combined data, from samples 7721 A&B, 7724 A&B, 7719 A&B and 7702 A&B for POHC or DRE calculations, would be questionable.

In sample 7704 A&B the value for bromoform should be 14 U.

Reviewed by: Thomas Sedlacek Lockheed Martin/ESAT  
Date: April 20, 1999

## NARRATIVE

Page 3 of 5

Laboratory: @AIR TOXICS LTD.  
Site: HIMCO DUMP

Case: DACW45-99-P-0094  
SDG: 7701 A&B

in sample 7721 A&B, and the LCS. Therefore, positive results for the above noted samples are estimated (J); non-detects are not qualified.

### 6. LABORATORY CONTROL SAMPLE

All spike recoveries were within QC limits, with the exception of the recovery of Chlorobenzene which was out of range high.

### 7. FIELD BLANK AND FIELD DUPLICATE

There was no field blank or field duplicate pair submitted with this case. The required sampling method is not conducive to generating field duplicates; therefore, the data is of acceptable quality.

### 8. INTERNAL STANDARDS

The internal standards' retention times and area counts for the VOA fraction were all within the required QC limits; therefore the results are acceptable.

### 9. COMPOUND IDENTIFICATION

Target compounds (TCLs) and Tentatively Identified Compounds (TICs) were identified using a "best fit" library search method. The lab also included the quality of spectrum matches for the TICs reported.

### 10. COMPOUND QUANTITATION AND REPORTED DETECTION LIMITS

All samples were VOST cartridges. All VOAs target CRQLs were properly reported. All target compound quantitation was properly reported. All results were reported as total ng present.

### 11. SYSTEM PERFORMANCE

The GC/MS baseline indicated acceptable performance.

### 12. ADDITIONAL INFORMATION

Reviewed by: Thomas Sedlacek Lockheed Martin/ESAT  
Date: April 20, 1999

## ORGANIC DATA QUALIFIER DEFINITIONS

For the purpose of defining the flagging nomenclature used in this document, the following code letters and associated definitions are provided:

**VALUE** - when/if the result of a value is greater than or equal to the Contract Required Quantitation Limit (CRQL).

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- J Indicates an estimated value. This flag is used either when estimating a concentration for a tentatively identified compound or when the data indicates the presence of a compound where the result is less than the sample quantitation limit, but greater than zero. The flag is also used to indicate a reported result having an associated QC problem.
- R Indicates the data are unusable. (NOTE: The analyte may or may not be present.)
- N Indicates presumptive evidence of a compound. This flag is only used for a tentatively identified compound, where the identification is based on a mass spectral library search.
- P Indicates a pesticide/Aroclor target analyte when there is greater than 25% difference for the detected concentrations between the two GC columns. The lower of the two results is reported.
- C Indicates pesticide results that have been confirmed by GC/MS.
- B Indicates the analyte is detected in the associated blank as well as in the sample.
- E Indicates compounds whose concentrations exceed the calibration range of the instrument.
- D Indicates an identified compound in an analysis has been diluted. This flag alerts the data user to any differences between the concentrations reported in the two analysis.
- A Indicates tentatively identified compounds that are suspected to be aldol condensation products.
- G Indicates the TCLP Matrix Spike Recovery was greater than the upper limit of the analytical method.
- L Indicates the TCLP Matrix Spike Recovery was less than the lower limit of the analytical method.
- T Indicates the analyte is found in the associated TCLP extraction blank as well as in the sample.

X,Y,Z are reserved for laboratory defined flags.

CALIBRATION OUTLIER

Volatile TCL

(Page 1 of 1)

CASE/SAS #: DACW45-99-P-204

LABORATORY: CHEM TOXIC LTD

COLUMN: \_\_\_\_\_

SITE NAME: H.M.C.C. Area

PURGE (Y/N) Y

| Instrument ID: M109.C             | Initial Cal. |       |        | Cont. Cal. |        |      | Cont. Cal. |    |      | Cont. Cal. |    |      | Cont. Cal. |    |      |
|-----------------------------------|--------------|-------|--------|------------|--------|------|------------|----|------|------------|----|------|------------|----|------|
|                                   | #            | RF    | XRSD   | #          | RF     | XRSD | #          | RF | XRSD | #          | RF | XRSD | #          | RF | XRSD |
| Chloromethane                     | 0.010        |       |        |            |        |      |            |    |      |            |    |      |            |    |      |
| Bromomethane                      | 0.100        |       |        |            |        |      |            |    |      |            |    |      |            |    |      |
| Vinyl Chloride                    | 0.100        |       |        |            |        |      |            |    |      |            |    |      |            |    |      |
| Chloroethane                      | 0.010        |       |        |            |        |      |            |    |      |            |    |      |            |    |      |
| Methylene Chloride                | 0.010        |       |        |            |        |      |            |    |      |            |    |      |            |    |      |
| Acetone                           | 0.010        | 0.027 | 44.9 J | 0.030      | 56.0 J |      |            |    |      |            |    |      |            |    |      |
| Carbon Disulfide                  | 0.010        |       |        |            |        |      |            |    |      |            |    |      |            |    |      |
| 1,1-Dichloroethene                | 0.100        |       |        |            |        |      |            |    |      |            |    |      |            |    |      |
| 1,1-Dichloroethane                | 0.200        |       |        |            |        |      |            |    |      |            |    |      |            |    |      |
| 1,2-Dichloroethene (total)        | 0.010        |       |        |            |        |      |            |    |      |            |    |      |            |    |      |
| Chloroform                        | 0.200        |       |        |            |        |      |            |    |      |            |    |      |            |    |      |
| 1,2-Dichloroethane                | 0.100        |       |        |            |        |      |            |    |      |            |    |      |            |    |      |
| 2-Butanone                        | 0.010        | 0.021 | 46.3 R |            |        |      |            |    |      |            |    |      |            |    |      |
| 1,1,1-Trichloroethane             | 0.100        |       |        |            |        |      |            |    |      |            |    |      |            |    |      |
| Carbon Tetrachloride              | 0.100        |       |        |            |        |      |            |    |      |            |    |      |            |    |      |
| Bromodichloromethane              | 0.200        |       |        |            |        |      |            |    |      |            |    |      |            |    |      |
| 1,2-Dichloropropane               | 0.010        |       |        |            |        |      |            |    |      |            |    |      |            |    |      |
| 1,3-Dichloropropane               | 0.200        |       |        |            |        |      |            |    |      |            |    |      |            |    |      |
| 1,1-Dichloroethene                | 0.300        |       |        |            |        |      |            |    |      |            |    |      |            |    |      |
| Dibromochloromethane              | 0.100        | 0.747 |        | 1.016      | 56.0 J |      |            |    |      |            |    |      |            |    |      |
| 1,1,2-Trichloroethane             | 0.100        | 0.615 |        | 0.790      | 28.4 J |      |            |    |      |            |    |      |            |    |      |
| Benzene                           | 0.500        | 0.441 |        | 1.328      | 35.3 J |      |            |    |      |            |    |      |            |    |      |
| trans-1,3-Dichloropropene         | 0.100        |       |        |            |        |      |            |    |      |            |    |      |            |    |      |
| Bromoform                         | 0.100        | 0.516 |        | 0.423      | 32.9 J |      |            |    |      |            |    |      |            |    |      |
| 4-Methyl-2-Pentanone              | 0.010        |       |        |            |        |      |            |    |      |            |    |      |            |    |      |
| 2-Hexanone                        | 0.010        |       |        |            |        |      |            |    |      |            |    |      |            |    |      |
| Tetrachloroethene                 | 0.200        |       |        |            |        |      |            |    |      |            |    |      |            |    |      |
| 1,1,2,2-Tetrachloroethane         | 0.300        |       |        |            |        |      |            |    |      |            |    |      |            |    |      |
| Toluene                           | 0.400        |       |        |            |        |      |            |    |      |            |    |      |            |    |      |
| Chlorobenzene                     | 0.500        |       |        |            |        |      |            |    |      |            |    |      |            |    |      |
| Ethylbenzene                      | 0.100        |       |        |            |        |      |            |    |      |            |    |      |            |    |      |
| Styrene                           | 0.300        |       |        |            |        |      |            |    |      |            |    |      |            |    |      |
| Xylene (total)                    | 0.300        |       |        |            |        |      |            |    |      |            |    |      |            |    |      |
| Toluene-d <sub>8</sub>            | 0.010        |       |        |            |        |      |            |    |      |            |    |      |            |    |      |
| Bromofluorobenzene                | 0.200        |       |        |            |        |      |            |    |      |            |    |      |            |    |      |
| 1,2-Dichloroethane-d <sub>2</sub> | 0.010        |       |        |            |        |      |            |    |      |            |    |      |            |    |      |

Affected Samples:

|                |  |  |  |
|----------------|--|--|--|
| LES 12/11-7702 |  |  |  |
| LES 12/11-     |  |  |  |
| 7727 7724      |  |  |  |
| 7711 7719      |  |  |  |
| 7727 7704      |  |  |  |
| 7701 7710      |  |  |  |

J = Minimum Relative Response Factor.  
 = These flags should be applied to the analytes on the sample data sheets.  
 J/R = All positive results are estimated, "J" and non-detected results are unusable.

Reviewer's Init/Date: JES 4/15/21

NARRATIVE

LABORATORY: AIR TOXICS LTD.

PRP CASE

SITE NAME: Hinco Dump Superfund Site

SDG: 7210A/B

Below is a summary of the out-of-control audits and the possible effect on the data for this case:

This review covers six VOST cartridges samples numbered:7210A/7210B, 7208A/7208B, 7212A/7212B, 7220A/7220B, 7204A/7204B and 7218A/7218B collected on 11/11/98. An Environmental Analytical Laboratory Air Toxics LTD of Folsom CA, received the samples on 11/12/98 in good condition. The samples were analyzed for Volatiles (dissolved gases) following SW846 Methods 5041A/8260B.

All sample analysis were performed within the technical holding time of fourteen (14) day after sample collection; therefore, the results are acceptable.

Sample 7208A/7208B could be not desorbed and analyzed due to heavy matrix (thick black liquid).

The reviewer's narrative and data qualifiers are noted in the following pages.

Reviewed by:            Krystyna Minczuk            Lockheed-Martin  
Date:    April 16<sup>th</sup>, 1999

Regional Transmittal Form

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION V

DATE:

SUBJECT: Review of Data  
Received for Review on 15 APRIL 1999

FROM: Stephen L. Ostrodka, Chief (HSRL-5J)  
Superfund Technical Support Section

*per Steve Ostrodka  
Richard L Byrns  
5/6/99*

TO: Data User: U.S. Army Corps of Engs

We have reviewed the data for the following case:

SITE NAME: Hinco Dump Superfund Site

CASE NUMBER: PRP SDG NUMBER: 7210A/B

Number and Type of Samples: 6 (cartridges)

Sample Numbers: 7210A/B, 7209A/B, 7212A/B, 7220A/B, 7204A/B, 7218A/B

Laboratory: Air TOXICS Ltd Hrs. for Review: 9

Following are our findings:

*The data is useable and acceptable with the  
qualifications described in the attached narrative  
Richard L Byrns*

CC: Cecilia Moore  
Region 5 TPO  
Mail Code: SM-5J

## NARRATIVE

LABORATORY: AIR TOXICS LTD.

PRP CASE

SITE NAME: Hinco Dump Superfund Site

SDG: 7210A/B

## 7.FIELD BLANK AND FIELD DUPLICATE

There were no sample specified as a field blank or field duplicate in this data

## 8.INTERNAL STANDARDS

The internal standards area counts for 1,4-Dichlorobenzene-d4 was below the QC limit in sample 7212A/7212B.

The positive results for the target compounds which are associated with 1,4-Dichlorobenzene-d4 for sample 7212A/7212B should be considered estimated "J", and non-detected quantitation limits should be considered estimated "UJ".

Please, refer to Table 4 for the list of associated compounds for 1,4-Dichlorobenzene-d4.

## 9.COMPOUND IDENTIFICATION

The target compounds and TICs for the Volatile fractions were correctly identified.

## 10.COMPOUND QUANTITATION AND REPORTED DETECTION LIMITS

The Volatile Target Compounds (TCLs) and Tentative Identified Compounds (TICs) were properly quantitated; therefore, the data are acceptable.

## 11.SYSTEM PERFORMANCE

GC/MS baseline indicated acceptable performance.

## 12.ADDITIONAL INFORMATION

Target compound Tetrachloroethane exceeded the calibration range in sample 7210A/7210B. This sample was not reanalyzed.

Reviewed by:            Krystyna Minczuk            Lockheed-Martin  
Date:            April 16<sup>th</sup>, 1999

## NARRATIVE

LABOPATORY: AIR TOXICS LTD.

PRP CASE

SITE NAME: Hinco Dump Superfund Site

SDG: 7210A/B

## 1. HOLDING TIME

Six VOST cartridges samples numbered: 7210A/7210B, 7208A/7208B, 7212A/7212B, 7220A/7220B, 7204A/7204B and 7218A/7218B were collected on 11/11/98. An Environmental Analytical Laboratory Air Toxics LTD of Folsom CA, received the samples on 11/12/98 in good condition. The samples were analyzed for Volatiles (dissolved gases) following SW846 Methods 5041A/8260B.

All sample analysis were performed within the technical holding time of fourteen (14) day after sample collection; therefore, the results are acceptable.

## 2. GC/MS TUNING PERFORMANCE AND GC PERFORMANCE

All GC/MS tuning complied with the mass list and ion abundance criteria for BFB, and all samples were analyzed within the twelve (12) hour periods for instrument performance checks.

## 3. CALIBRATION

Initial and continuing calibration standards of Volatile were evaluated for the Target Compounds List (TCLs) and outliers were recorded on the outlier forms included as a part of this narrative.

## 4. METHOD BLANK

The Volatile Laboratory Blank was clean; therefore, the results are

## 5. SURROGATE RECOVERIES

Surrogate 4-Bromofluorobenzene in sample 7212A/7212B (211%) was above QC limit (78-119%). Positive Volatile results in sample 7212A/7212B should be considered estimated "J", non-detected do not need qualification.

## 6. LABORATORY CONTROL SAMPLES

All spike recoveries in the laboratory control sample LCS QCSP were within the QC limits; therefore, the results are acceptable.

Reviewed by:           Krystyna Minczuk           Lockheed-Martin  
Date:   April 16<sup>th</sup>, 1999

## ORGANIC DATA QUALIFIER DEFINITIONS

For the purpose of defining the flagging nomenclature used in this document, the following code letters and associated definitions are provided:

**VALUE** - when/if the result of a value is greater than or equal to the Contract Required Quantitation Limit (CRQL).

- U** Indicates that the compound was analyzed for, but not detected. The sample quantitation limit corrected for dilution and percent moisture is reported.
- J** Indicates an estimated value. This flag is used either when estimating a concentration for a tentatively identified compound or when the data indicates the presence of a compound where the result is less than the sample quantitation limit, but greater than zero. The flag is also used to indicate a reported result having an associated QC problem.
- R** Indicates the data are unusable. (NOTE: The analyte may or may not be present.)
- N** Indicates presumptive evidence of a compound. This flag is only used for a tentatively identified compound, where the identification is based on a mass spectral library search.
- P** Indicates a pesticide/Aroclor target analyte when there is greater than 25% difference for the detected concentrations between the two GC columns. The lower of the two results is reported.
- C** Indicates pesticide results that have been confirmed by GC/MS.
- B** Indicates the analyte is detected in the associated blank as well as in the sample.
- E** Indicates compounds whose concentrations exceed the calibration range of the instrument.
- D** Indicates an identified compound in an analysis has been diluted. This flag alerts the data user to any differences between the concentrations reported in the two analysis.
- A** Indicates tentatively identified compounds that are suspected to be aldol condensation products.
- G** Indicates the TCLP Matrix Spike Recovery was greater than the upper limit of the analytical method.
- L** Indicates the TCLP Matrix Spike Recovery was less than the lower limit of the analytical method.
- T** Indicates the analyte is found in the associated TCLP extraction blank as well as in the sample.

X,Y,Z are reserved for laboratory defined flags.

**CALIBRATION OUTLIERS  
VOLATILE TCL COMPOUNDS**

(Page 1 of 1)

CASE/SAS#: PRP  
 COLUMN: \_\_\_\_\_  
 HEATED PURGE (Y/N): \_\_\_\_\_

LABORATORY: Env Toxics Ltd  
 SITE NAME: MINCO Dump

| Instrument#                | Initial Cal. |     |       | Contin. Cal. |     |    | Contin. Cal. |   |    | Contin. Cal. |   |    | Contin. Cal. |   |    |    |   |
|----------------------------|--------------|-----|-------|--------------|-----|----|--------------|---|----|--------------|---|----|--------------|---|----|----|---|
|                            | Date/Time:   | #   | rf    | %rsd         | *   | rf | %d           | * | rf | %d           | * | rf | %d           | * | rf | %d | * |
| Chloromethane              | 0.01         | 405 | 31.92 | J            | 409 |    |              |   |    |              |   |    |              |   |    |    |   |
| Bromomethane               | 0.10         |     |       |              |     |    |              |   |    |              |   |    |              |   |    |    |   |
| Vinyl chloride             | 0.10         |     |       |              |     |    |              |   |    |              |   |    |              |   |    |    |   |
| Chloroethane               | 0.01         |     |       |              |     |    |              |   |    |              |   |    |              |   |    |    |   |
| Methylene chloride         | 0.01         |     |       |              |     |    |              |   |    |              |   |    |              |   |    |    |   |
| Acetone                    | 0.01         | 055 | 37.01 | J            | 071 |    |              |   |    |              |   |    |              |   |    |    |   |
| Carbon disulfide           | 0.01         |     |       |              |     |    |              |   |    |              |   |    |              |   |    |    |   |
| 1,1-Dichloroethene         | 0.10         |     |       |              |     |    |              |   |    |              |   |    |              |   |    |    |   |
| 1,1-Dichloroethane         | 0.20         |     |       |              |     |    |              |   |    |              |   |    |              |   |    |    |   |
| 1,2-Dichloroethene (total) |              |     |       |              |     |    |              |   |    |              |   |    |              |   |    |    |   |
| Chloroform                 | 0.20         |     |       |              |     |    |              |   |    |              |   |    |              |   |    |    |   |
| 1,2-Dichloroethane         | 0.10         |     |       |              |     |    |              |   |    |              |   |    |              |   |    |    |   |
| 2-Butanone                 | 0.01         |     |       |              |     |    |              |   |    |              |   |    |              |   |    |    |   |
| 1,1,1-Trichloroethane      | 0.10         |     |       |              |     |    |              |   |    |              |   |    |              |   |    |    |   |
| Carbon tetrachloride       | 0.10         |     |       |              |     |    |              |   |    |              |   |    |              |   |    |    |   |
| Bromodichloromethane       | 0.20         |     |       |              |     |    |              |   |    |              |   |    |              |   |    |    |   |
| 1,2-Dichloropropane        |              |     |       |              |     |    |              |   |    |              |   |    |              |   |    |    |   |
| cis-1,3-Dichloropropene    | 0.20         |     |       |              |     |    |              |   |    |              |   |    |              |   |    |    |   |
| Trichloroethene            | 0.30         |     |       |              |     |    |              |   |    |              |   |    |              |   |    |    |   |
| Dibromochloromethane       | 0.10         |     |       |              |     |    |              |   |    |              |   |    |              |   |    |    |   |
| 1,1,2-Trichloroethane      | 0.10         |     |       |              |     |    |              |   |    |              |   |    |              |   |    |    |   |
| Benzene                    | 0.50         |     |       |              |     |    |              |   |    |              |   |    |              |   |    |    |   |
| trans-1,3-Dichloropropene  | 0.10         |     |       |              |     |    |              |   |    |              |   |    |              |   |    |    |   |
| Bromoform                  | 0.10         |     |       |              |     |    |              |   |    |              |   |    |              |   |    |    |   |
| 4-Methyl-2-pentanone       | 0.01         |     |       |              |     |    |              |   |    |              |   |    |              |   |    |    |   |
| 2-Hexanone                 | 0.01         |     |       |              |     |    |              |   |    |              |   |    |              |   |    |    |   |
| Tetrachloroethene          | 0.20         |     |       |              |     |    |              |   |    |              |   |    |              |   |    |    |   |
| 1,1,2,2-Tetrachloroethane  | 0.50         |     |       |              |     |    |              |   |    |              |   |    |              |   |    |    |   |
| Toluene                    | 0.40         |     |       |              |     |    |              |   |    |              |   |    |              |   |    |    |   |
| Chlorobenzene              | 0.50         |     |       |              |     |    |              |   |    |              |   |    |              |   |    |    |   |
| Ethylbenzene               | 0.10         |     |       |              |     |    |              |   |    |              |   |    |              |   |    |    |   |
| Styrene                    | 0.30         |     |       |              |     |    |              |   |    |              |   |    |              |   |    |    |   |
| Xylene (total)             | 0.30         |     |       |              |     |    |              |   |    |              |   |    |              |   |    |    |   |
| Toluene-d8                 |              |     |       |              |     |    |              |   |    |              |   |    |              |   |    |    |   |
| Bromofluorobenzene         | 0.20         |     |       |              |     |    |              |   |    |              |   |    |              |   |    |    |   |
| 1,2-Dichloroethane-d4      |              |     |       |              |     |    |              |   |    |              |   |    |              |   |    |    |   |
| Samples affected:          |              |     |       |              |     |    |              |   |    |              |   |    |              |   |    |    |   |
|                            |              |     |       |              |     |    |              |   |    |              |   |    |              |   |    |    |   |
|                            |              |     |       |              |     |    |              |   |    |              |   |    |              |   |    |    |   |
|                            |              |     |       |              |     |    |              |   |    |              |   |    |              |   |    |    |   |
|                            |              |     |       |              |     |    |              |   |    |              |   |    |              |   |    |    |   |
|                            |              |     |       |              |     |    |              |   |    |              |   |    |              |   |    |    |   |
|                            |              |     |       |              |     |    |              |   |    |              |   |    |              |   |    |    |   |
|                            |              |     |       |              |     |    |              |   |    |              |   |    |              |   |    |    |   |
|                            |              |     |       |              |     |    |              |   |    |              |   |    |              |   |    |    |   |
|                            |              |     |       |              |     |    |              |   |    |              |   |    |              |   |    |    |   |
|                            |              |     |       |              |     |    |              |   |    |              |   |    |              |   |    |    |   |

Reviewer's Init/Date: LS

J/R = All positive results are estimated "J" and non-detected results are unusable "R"

- \* = These flags should be applied to the analytes on the sample data sheets.
- # = Minimum Relative Response Factor

Regional Transmittal Form

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION V

DATE:

SUBJECT: Review of Data

Received for Review on 15 APRIL 1999

FROM: Stephen L. Ostrodka, Chief (HSRL-5J)  
Superfund Technical Support Section

*for Steve Ostrodka  
Michael J. Byrnie  
5/6/99*

TO: Data User: U.S. ARMY CORPS of ENGS.

We have reviewed the data for the following case:

SITE NAME: HIMCO DUMP

CASE NUMBER: DACW45-99-P-0094 SDG NUMBER: 7703A & B

Number and Type of Samples: 5 TENAX Tube AIR DIS. GAS

Sample Numbers: 7703A & B, 7705A & B, 7706A & B, 7708A & B and 7709A & B

Laboratory: AIR TOXICS LTD Hrs. for Review: \_\_\_\_\_

Following are our findings:

*The data is useful and acceptable with the  
qualifications described in the attached narrative  
Michael J. Byrnie*

CC: Cecilia Moore  
Region 5 TPO  
Mail Code: SM-5J

**TABLE 4**  
(For Low Concentration water)

**VOLATILE INTERNAL STANDARDS WITH CORRESPONDING TCL ANALYTES ASSIGNED FOR QUANTITATION**

| <u>1,4-Difluorobenzene</u>                    | <u>Chlorobenzene-d<sub>4</sub></u> | <u>1,4-Dichlorobenzene-d<sub>2</sub></u> |
|---|------------------------------------|--|
| Chloromethane                                 | 4-Methyl-2-pentanone               | Bromoforn                                |
| Bromomethane                                  | 1,1,1-Trichloroethane              | 1,2-Dibromo-3-chloropropane              |
| Vinyl chloride                                | Carbon tetrachloride               | 1,2-Dichlorobenzene                      |
| Chloroethane                                  | Bromodichloromethane               | 1,3-Dichlorobenzene                      |
| Methylene chloride                            | 1,2-Dichloropropane                | 1,4-Dichlorobenzene                      |
| Acetone                                       | trans-1,3-Dichloropropene          |  |
| Carbon disulfide                              | Trichloroethene                    |  |
| 1,1-Dichloroethane                            | Dibromochloromethane               |  |
| 1,1-Dichloroethene                            | 1,1,2-Trichloroethane              |  |
| 4-Bromofluorobenzene                          | Benzene                            |  |
| Chloroform                                    | cis-1,3-Dichloropropene            |  |
| 1,2-Dichloroethane                            | Chlorobenzene                      |  |
| 1,2-Dichloroethane-d <sub>4</sub> (surr, smc) | 1,2-Dibromomethane                 |  |
| 2-Butanone                                    | Ethylbenzene                       |  |
| Bromochloromethane                            | 2-Hexanone                         |  |
| cis-1,2-Dichloroethene                        | Styrene                            |  |
| trans-1,2-Dichloroethene                      | Xylene(total)                      |  |
|   | Toluene                            |  |
|   | Tetrachloroethene                  |  |
|   | 1,1,2,2-Tetrachloroethane          |  |

**SEMIVOLATILE INTERNAL STANDARDS WITH CORRESPONDING TCL ANALYTES ASSIGNED FOR QUANTITATION**

| <u>1,4-Dichlorobenzene-d<sub>2</sub></u> | <u>Naphthalene-d<sub>8</sub></u>   | <u>Acenaphthene-d<sub>10</sub></u> | <u>Phenanthrene-d<sub>10</sub></u> | <u>Chrysene-d<sub>12</sub></u>   | <u>Perylene-d<sub>12</sub></u> |
|--|------------------------------------|------------------------------------|------------------------------------|----------------------------------|--------------------------------|
| Phenol                                   | Nitrobenzene                       | Hexachlorocyclopentadiene          | 4,6-Dinitro-2-methylphenol         | Pyrene                           | Di-n-octyl phthalate           |
| bis(2-chloroethyl)ether                  | Isophorone                         | 2,4,6-Trichlorophenol              | N-nitroso-di-phenylamine           | butylbenzyl phthalate            | Benzo(b)fluoranthene           |
| 2-Chlorophenol                           | 2-Nitrophenol                      | 2,4,5-Trichlorophenol              | 1,2-Diphenylhydrazine              | 3,3'-Dichlorobenzidine           | Benzo(k)fluoranthene           |
| 2-Methylphenol                           | 2,4-Dimethylphenol                 | 2-Chloronaphthalene                | 4-Bromophenyl phenyl ether         | Benzo(a)anthracene               | Benzo(a)pyrene                 |
| bis(2-chloroisopropyl)ether              | 2-Methylnaphthalene                | 2-Nitroaniline                     | Hexachlorobenzene                  | bis(2-Ethylhexyl)phthalate       | Indeno(1,2,3-cd)pyrene         |
| 4-Methylphenol                           | bis(2-Chloroethoxy)methane         | Dimethylphthalate                  | Pentachlorophenol                  | Chrysene                         | Dibenzo(a,h)anthracene         |
| N-nitroso-di-n-propylamine               | 2,4-Dichlorophenol                 | Acenaphthylene                     | Phenanthrene                       | Terphenyl-d <sub>14</sub> (surr) | Benzo(g,h,i)perylene           |
| 2-Fluorophenol(surr)                     | Nitrobenzene-d <sub>5</sub> (surr) | 3-Nitroaniline                     | Anthracene                         |                                  |                                |
| Phenol-d <sub>4</sub> (surr)             | 4-Chloroaniline                    | Acenaphthene                       | Di-n-butyl phthalate               |                                  |                                |
|  | Hexachlorobutadiene                | 2,4-Dinitrophenol                  | Fluoranthene                       |                                  |                                |
|  | 4-Chloro-3-methylphenol            | 4-Nitrophenol                      |                                    |                                  |                                |
|  |                                    | Dibenzofuran                       |                                    |                                  |                                |
|  |                                    | 2,4-Dinitrotoluene                 |                                    |                                  |                                |
|  |                                    | 2,6-Dinitrotoluene                 |                                    |                                  |                                |
|  |                                    | Diethyl phthalate                  |                                    |                                  |                                |
|  |                                    | 4-Chlorophenyl phenyl ether        |                                    |                                  |                                |
|  |                                    | Fluorene                           |                                    |                                  |                                |
|  |                                    | 4-Nitroaniline                     |                                    |                                  |                                |
|  |                                    | 2-Fluorobiphenyl(surr)             |                                    |                                  |                                |
|  |                                    | 2,4,6-Tribromophenol(surr)         |                                    |                                  |                                |

## NARRATIVE

Contractor: Air Toxics Ltd  
Site: Himco Dump (IN)

Case #:DACW45-99-P-0094  
SDG: 7703 A&B

**1.HOLDING TIMES**

This case consists of 5 VOST samples 7703 A&B, 7705 A&B, 7706 A&B, 7708 A&B, and 7709 A&B. According to the laboratory COC these samples were sampled on December 9, 1998 and were received by the laboratory on December 10, 1998, no field COC was part of this case. This case was completed on December 15, 1998, thus meeting holding time requirements. All samples were analyzed for volatiles (dissolved gases). All samples were analyzed according to SW 846 methods 5041A/8260B.

**2.GC/MS TUNING**

All volatile GC/MS tuning complied with the mass list and ion abundance criteria for BFB, and all samples were analyzed within the 12 hour periods for instrument performance checks, therefore all results are acceptable.

**3.CALIBRATION**

Initial and continuing calibrations of the volatiles standards were evaluated for the specified target compound list and outliers are recorded on the forms included as part of the narrative.

**4.BLANKS**

The volatile low level Lab Blank contained the chemical bromoform 25 ng, and contained no TICs. The presence of bromoform in the samples associated with this Lab Blank is flagged "U" when the sample results is less than five (5) times the blank concentration.

**5.SURROGATE RECOVER**

The volatile surrogate compound 1,2dichloroethane-d4 was high and out of QC limits in samples 7705 A&B, 7701 A&B, 7708 A&B, 7709 A&B, Lab Blank, and LCS. In these samples positive detects are estimated (J) and nondetects need no qualification. Volatile surrogate 4-bromofluorobenzene was high and out of QC limits in sample 7708 A&B. As this sample is already qualified above no further qualification is needed.

**6.LCS**

The LCS that was run with this set had high % recoveries for acetone, carbon disulfide, and 2-hexanone. No qualification of the data is done based on LCS recoveries.

**7.FIELD BLANKS AND FIELD DUPLICATES**

None were listed on the COC.

**8.INTERNAL STANDARDS**

The volatile internal standards for the low level analysis were within the laboratories QC limits for all samples, therefore, the results are acceptable.

Reviewed by: M. Kaminsky Lockheed-Martin/ ESAT  
Date: April 15, 1999

1 of 4

## NARRATIVE

Contractor: Air Toxics Ltd  
Site: Himeco Dump (IN)

Case #:DACW45-99-P-0094  
SDG: 7703 A&B

This case consists of 5 VOST samples 7703 A&B, 7705 A&B, 7706 A&B, 7708 A&B, and 7709 A&B. According to the laboratory COC these samples were sampled on December 9, 1998 and were received by the laboratory on December 10, 1998, no field COC was part of this case. This case was completed on December 15, 1998, thus meeting holding time requirements. All samples were analyzed for volatiles (dissolved gases). All samples were analyzed according to SW 846 methods 5041A/8260B.

The reviewer's narrative and data qualifiers are noted in the following pages.

Reviewed by: M. Kaminsky Lockheed-Martin/ ESAT  
Date: April 15, 1999

NARRATIVE

Contractor: Air Toxics Ltd  
Site: Himco Dump (IN)

Case #:DACW45-99-P-0094  
SDG: 7703 A&B

**9.COMPOUND IDENTIFICATION**

After reviewing the mass spectra it appears that all VOA compounds were properly identified.

**10.COMPOUND QUANTITATION AND REPORTED DETECTION LIMITS**

All CRQLs were properly reported and a bag dilution was performed on sample 7705 A&B to screen the samples. All target compounds and TICs appear to be properly reported.

**11.SYSTEM PERFORMANCE**

GC/MS baselines indicated acceptable performance.

**12.ADDITIONAL INFORMATION**

None.

Reviewed by: M. Kaminsky Lockheed-Martin/ ESAT  
Date: April 15, 1999

**CALIBRATION OUTLIERS  
VOLATILE TCL COMPOUNDS**

(Page 1 of 1)

CASE/SAS#: DAGW 45  
 COLUMN: \_\_\_\_\_  
 HEATED PURGE (Y/N): \_\_\_\_\_

LABORATORY: City of Denver LTD  
 SITE NAME: Flanagan Group

| Instrument#                | Date/Time   | Initial Cal. |      |      |   | Contin. Cal. |     |   |    | Contin. Cal. |   |    |    | Contin. Cal. |    |    |   |
|----------------------------|-------------|--------------|------|------|---|--------------|-----|---|----|--------------|---|----|----|--------------|----|----|---|
|                            |             | #            | rf   | %rsd | * | rf           | %d  | * | rf | %d           | * | rf | %d | *            | rf | %d | * |
| MSD 7 A                    | 11-23 07:19 |              |      |      |   |              |     |   |    |              |   |    |    |              |    |    |   |
| Chloromethane              | 0.01        |              |      |      |   |              |     |   |    |              |   |    |    |              |    |    |   |
| Bromomethane               | 0.10        |              |      |      |   |              |     |   |    |              |   |    |    |              |    |    |   |
| Vinyl chloride             | 0.10        |              |      |      |   |              |     |   |    |              |   |    |    |              |    |    |   |
| Chloroethane               | 0.01        |              |      |      |   |              |     |   |    |              |   |    |    |              |    |    |   |
| Methylene chloride         | 0.01        |              |      |      |   |              |     |   |    |              |   |    |    |              |    |    |   |
| Acetone                    | 0.01        | 6.67         | 44.1 |      |   |              |     |   |    |              |   |    |    |              |    |    |   |
| Carbon disulfide           | 0.01        |              |      |      |   |              |     |   |    |              |   |    |    |              |    |    |   |
| 1,1-Dichloroethene         | 0.10        |              |      |      |   |              |     |   |    |              |   |    |    |              |    |    |   |
| 1,1-Dichloroethane         | 0.20        |              |      |      |   |              |     |   |    |              |   |    |    |              |    |    |   |
| 1,2-Dichloroethene (total) |             |              |      |      |   |              |     |   |    |              |   |    |    |              |    |    |   |
| Chloroform                 | 0.20        |              |      |      |   |              |     |   |    |              |   |    |    |              |    |    |   |
| 1,2-Dichloroethane         | 0.10        |              |      |      |   |              |     |   |    |              |   |    |    |              |    |    |   |
| 2-Butanone                 | 0.01        |              |      |      |   |              |     |   |    |              |   |    |    |              |    |    |   |
| 1,1,1-Trichloroethane      | 0.10        |              |      |      |   |              |     |   |    |              |   |    |    |              |    |    |   |
| Carbon tetrachloride       | 0.10        |              |      |      |   |              |     |   |    |              |   |    |    |              |    |    |   |
| Bromodichloromethane       | 0.20        |              |      |      |   |              |     |   |    |              |   |    |    |              |    |    |   |
| 1,2-Dichloropropane        |             | 0.51         |      |      |   | 0.10         | 2.0 | 5 |    |              |   |    |    |              |    |    |   |
| cis-1,3-Dichloropropene    | 0.20        |              |      |      |   |              |     |   |    |              |   |    |    |              |    |    |   |
| Trichloroethene            | 0.30        |              |      |      |   |              |     |   |    |              |   |    |    |              |    |    |   |
| Dibromochloromethane       | 0.10        |              |      |      |   |              |     |   |    |              |   |    |    |              |    |    |   |
| 1,1,2-Trichloroethane      | 0.10        |              |      |      |   |              |     |   |    |              |   |    |    |              |    |    |   |
| Benzene                    | 0.50        |              |      |      |   |              |     |   |    |              |   |    |    |              |    |    |   |
| trans-1,3-Dichloropropene  | 0.10        |              |      |      |   |              |     |   |    |              |   |    |    |              |    |    |   |
| Bromoform                  | 0.10        |              |      |      |   |              |     |   |    |              |   |    |    |              |    |    |   |
| 4-Methyl-2-pentanone       | 0.01        | 10.7         | 42.6 |      |   |              |     |   |    |              |   |    |    |              |    |    |   |
| 2-Hexanone                 | 0.01        |              |      |      |   |              |     |   |    |              |   |    |    |              |    |    |   |
| Tetrachloroethene          | 0.20        |              |      |      |   |              |     |   |    |              |   |    |    |              |    |    |   |
| 1,1,2,2-Tetrachloroethane  | 0.50        | 0.51         |      |      |   | 0.10         | 2.0 | 5 |    |              |   |    |    |              |    |    |   |
| Toluene                    | 0.40        |              |      |      |   |              |     |   |    |              |   |    |    |              |    |    |   |
| Chlorobenzene              | 0.50        |              |      |      |   |              |     |   |    |              |   |    |    |              |    |    |   |
| Ethylbenzene               | 0.10        |              |      |      |   |              |     |   |    |              |   |    |    |              |    |    |   |
| Styrene                    | 0.30        |              |      |      |   |              |     |   |    |              |   |    |    |              |    |    |   |
| Xylene (total)             | 0.30        |              |      |      |   |              |     |   |    |              |   |    |    |              |    |    |   |
| Toluene-d8                 |             |              |      |      |   |              |     |   |    |              |   |    |    |              |    |    |   |
| Bromofluorobenzene         | 0.20        |              |      |      |   |              |     |   |    |              |   |    |    |              |    |    |   |
| 1,2-Dichloroethane-d4      |             |              |      |      |   |              |     |   |    |              |   |    |    |              |    |    |   |
| Samples affected:          |             | KCS          |      |      |   | Lab Blank    |     |   |    |              |   |    |    |              |    |    |   |

Reviewer's Init/Date: WJK 11-15-19

J/R = All positive results are estimated "J" and non-detected results are unusable "R"

- = These flags should be applied to the analytes on the sample data sheets.
- # = Minimum Relative Response Factor

## ORGANIC DATA QUALIFIER DEFINITIONS

For the purpose of defining the flagging nomenclature used in this document, the following code letters and associated definitions are provided:

**VALUE** - when/if the result of a value is greater than or equal to the Contract Required Quantitation Limit (CRQL).

- U** Indicates that the compound was analyzed for, but not detected. The sample quantitation limit corrected for dilution and percent moisture is reported.
- J** Indicates an estimated value. This flag is used either when estimating a concentration for a tentatively identified compound or when the data indicates the presence of a compound where the result is less than the sample quantitation limit, but greater than zero. The flag is also used to indicate a reported result having an associated QC problem.
- R** Indicates the data are unusable. (NOTE: The analyte may or may not be present.)
- N** Indicates presumptive evidence of a compound. This flag is only used for a tentatively identified compound, where the identification is based on a mass spectral library search.
- P** Indicates a pesticide/Aroclor target analyte when there is greater than 25% difference for the detected concentrations between the two GC columns. The lower of the two results is reported.
- C** Indicates pesticide results that have been confirmed by GC/MS.
- B** Indicates the analyte is detected in the associated blank as well as in the sample.
- E** Indicates compounds whose concentrations exceed the calibration range of the instrument.
- D** Indicates an identified compound in an analysis has been diluted. This flag alerts the data user to any differences between the concentrations reported in the two analysis.
- A** Indicates tentatively identified compounds that are suspected to be aldol condensation products.
- G** Indicates the TCLP Matrix Spike Recovery was greater than the upper limit of the analytical method.
- L** Indicates the TCLP Matrix Spike Recovery was less than the lower limit of the analytical method.
- T** Indicates the analyte is found in the associated TCLP extraction blank as well as in the sample.

X,Y,Z are reserved for laboratory defined flags.

Regional Transmittal Form

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION V

DATE:

SUBJECT: Review of Data  
Received for Review on \_\_\_\_\_

FROM: Stephen L. Ostrodka, Chief (HSRL-5J)  
Superfund Technical Support Section

*per Steve Ostrodka  
Michael J. Dyrnik  
5/6/99*

TO: Data User: U.S. Army Corps of Engineers

We have reviewed the data for the following case:

SITE NAME: Himco Dump (Indiana)

CASE NUMBER: DACW 45-99-P-0094 SDG NUMBER: 711A+B

Number and Type of Samples: 5 sorbent cartridges with air samples

Sample Numbers: 711A+B, 7207A+B, 7214A+B, 7213A+B, 7114A+B

Laboratory: Air Toxics Ltd (CA) Hrs. for Review: 11.5

Following are our findings:

*the data is usable and acceptable with  
the qualifications described in the attached narrative*

*Michael J. Dyrnik*

CC: Cecilia Moore  
Region 5 TPO  
Mail Code: SM-5J

## NARRATIVE

LABORATORY: Air Toxics Ltd. (CA) PRP PROJECT # DACW45-99-P-0094  
SITE NAME: Himco Dump (Indiana) SDG: 7111A&B

Below is a summary of the out-of-control audits and the possible effect on the data for this case:

This PRP case is the analytical results of five sorbent cartridges containing air samples from the Himco Dump site in Omaha, NE (7111A&B, 7207A&B, 7214A&B, 7213A&B and 7114A&B). The samples were collected on 11/17/98, and Air Toxics Ltd. of Folsom, CA received the samples on 11/18/98 in good condition. The samples were collected according to SW-846 Method 5041A (Analysis for Desorption of Sorbent Cartridges from Volatile Organic Sampling Train) and analyzed by Method 8260B on 11/30/98 for selected volatile analytes (VOCs). The samples were analyzed within fourteen days from collection; therefore, their holding time results are acceptable.

Sample results are reported with units of nanograms (ng).

Matrix spike analyses are not applicable to these types of samples. A Laboratory Control Sample (LCS) was spiked with VOCs, and the raw data were submitted with this case.

According to the sample information submitted with this case, field blanks and field duplicates were not submitted.

The reviewer's narrative and data qualifiers are noted in the following pages.

## NARRATIVE

LABORATORY: Air Toxics Ltd. (CA) PRP PROJECT # DACW45-99-P-0094  
SITE NAME: Himco Dump (Indiana) SDG: 7111A&B

**1. HOLDING TIMES**

The five sorbent cartridges samples of this PRP case are: 7111A&B, 7207A&B, 7214A&B, 7213A&B and 7114A&B. The air samples were collected on 11/17/98, and Air Toxics Ltd. of Folsom, CA received them on 11/18/98 in good condition. The samples were collected according to SW-846 Method 5041A (Analysis for Desorption of Sorbent Cartridges from Volatile Organic Sampling Train) and analyzed by Method 8260B on 11/30/98 for selected volatile analytes (VOCs). The samples were analyzed within fourteen days from collection; therefore, their holding time results are acceptable.

**2. GC INSTRUMENT PERFORMANCE CHECKS**

All GC/MS instrument performance checks for BFB complied with their mass list and ion abundance criteria, and all samples were analyzed within the twelve-hour periods for instrument performance checks.

**3. CALIBRATIONS**

The initial calibration and the continuing calibration check standard were evaluated for the Target Compounds List (TCLs).

All samples were quantitated based on the calibration factors obtained from the initial calibrations.

**4. METHOD BLANKS**

No target analytes or TICs were detected in the Method Blank of 11/30/98.

No other blank data were submitted in this case.

**5. SURROGATE RECOVERIES**

The volatile system monitoring compounds were within the QC limits for all samples.

## NARRATIVE

LABORATORY: Air Toxics Ltd. (CA) PRP PROJECT # DACW45-99-P-0094  
SITE NAME: Himco Dump (Indiana) SDG: 7111A&B

#### 6. MATRIX SPIKE/SPIKE DUPLICATES AND LABORATORY CONTROL SPIKE (LCS)

Matrix spike analyses are not applicable for these samples.

In the LCS sample of 11/25/98, four compounds (acetone, carbon disulfide, 2-butanone and 4-methyl-2-pentanone) had recoveries which exceeded 150%. Positive results of these four compounds in any of the associated samples should be qualified with a "J" (estimated concentration).

#### 7. FIELD BLANKS AND FIELD DUPLICATES

Field blanks and field duplicates were not submitted.

#### 8. INTERNAL STANDARDS

The internal standards areas and retention times of the volatile and semivolatile samples were within the QC limits.

#### 9. COMPOUND IDENTIFICATION

##### Sample 7111A&B

The mass spectrum of carbon disulfide shows the presence of iodomethane and a Freon. The Laboratory should indicate if the concentrations of these compounds are high enough to be reported.

##### Sample 7207A&B

1,2-Dichloroethane should not have been reported in this sample because the submitted mass spectrum indicates a cycloalkane.

The mass spectrum of vinyl chloride shows the presence of chlorofluoromethane and an alkane. The mass spectrum of chloroethane shows the presence of a TIC with an ion at m/z 60. The mass spectrum of carbon disulfide shows the presence of Freon 113 (1,1,2-trichloro-1,2,2-trifluoroethane). The mass spectrum of toluene shows the presence of a cycloalkane. The Laboratory should indicate if the concentrations of these compounds are high enough to be reported.

## NARRATIVE

LABORATORY: Air Toxics Ltd. (CA) PRP PROJECT # DACW45-99-P-0094  
SITE NAME: Himco Dump (Indiana) SDG: 7111A&B

Sample 7214A&B

The TIC which elutes at 9.24 minutes should have been called an unknown alkane, not octyl trifluoroacetate.

The mass spectrum of chloroethane shows the presence of a TIC with an ion at  $m/z$  60. The mass spectrum of carbon disulfide shows the presence of a Freon. The mass spectrum of *trans*-1,2-dichloroethene shows the presence of a TIC (possibly hexane). The mass spectrum of *m/p*-xylene shows the presence of an alkyl-substituted cycloalkane. The Laboratory should indicate if the concentrations of these compounds are high enough to be reported.

Sample 7213A&B

The mass spectra of vinyl chloride shows the presence of a chlorofluoromethane and another TIC (possibly butane or 2-methylpropane). The mass spectrum of bromomethane shows the presence of a TIC with an ion at  $m/z$  73. The Laboratory should indicate if the concentrations of these compounds are high enough to be reported.

The TIC which elutes at 0.84 minutes may have been called propane or an unknown TIC, but it should not have been labeled as 2-butenal due to a poor match with the reference spectrum.

Sample 7114A&B

The mass spectra of vinyl chloride and chloroethane each show the presence of a Freon. The mass spectrum of *trans*-1,2-dichloroethene shows the presence of a TIC (possibly hexane). The Laboratory should indicate if the concentrations of these compounds are high enough to be reported.

Except for 1,2-dichloroethane in sample 7207A&B (noted above), all target compounds were correctly identified.

**10. COMPOUND QUANTITATION AND REPORTED DETECTION LIMITS**

The volatile target compounds (TCLs) in all samples were properly quantitated. The CRQLs were adjusted to reflect all sample dilutions.

**CALIBRATION OUTLIERS  
VOLATILE TCL COMPOUNDS**

(Page 1 of 1)

CASE/SAS#: PRP Project # DACW 45-  
 COLUMN: \_\_\_\_\_ 99-P-0094  
 HEATED PURGE (Y/N): \_\_\_\_\_

LABORATORY: AIR TOXICS LTD (CA)  
 SITE NAME: Himec Dump (Cincinnati, OH)  
(Indiana) ag 51

| Instrument#                | Initial Cal. |       |      | Contin. Cal. |        |       | Contin. Cal. |   |    | Contin. Cal. |   |    |    |   |
|----------------------------|--------------|-------|------|--------------|--------|-------|--------------|---|----|--------------|---|----|----|---|
|                            | Date/Time:   | #     | rf   | %rsd         | *      | rf    | %d           | * | rf | %d           | * | rf | %d | * |
| Chloromethane              | 0.01         |       |      |              |        |       |              |   |    |              |   |    |    |   |
| Bromomethane               | 0.10         | 2.199 | 13.0 |              | 10.134 | 13.7  | J            |   |    |              |   |    |    |   |
| Vinyl chloride             | 0.10         |       |      |              |        |       |              |   |    |              |   |    |    |   |
| Chloroethane               | 0.01         |       |      |              |        |       |              |   |    |              |   |    |    |   |
| Methylene chloride         | 0.01         |       |      |              |        |       |              |   |    |              |   |    |    |   |
| Acetone                    | 0.01         | 0.067 | 44.9 | J            | 0.141  | 109.7 | J            |   |    |              |   |    |    |   |
| Carbon disulfide           | 0.01         |       |      |              |        |       |              |   |    |              |   |    |    |   |
| 1,1-Dichloroethene         | 0.10         |       |      |              |        |       |              |   |    |              |   |    |    |   |
| 1,1-Dichloroethane         | 0.20         |       |      |              |        |       |              |   |    |              |   |    |    |   |
| 1,2-Dichloroethene (total) |              |       |      |              |        |       |              |   |    |              |   |    |    |   |
| Chloroform                 | 0.20         |       |      |              |        |       |              |   |    |              |   |    |    |   |
| 1,2-Dichloroethane         | 0.10         |       |      |              |        |       |              |   |    |              |   |    |    |   |
| 2-Butanone                 | 0.01         | 0.009 | 18.3 | J            | 0.016  | 173.3 | J            |   |    |              |   |    |    |   |
| 1,1,1-Trichloroethane      | 0.10         |       |      |              |        |       |              |   |    |              |   |    |    |   |
| Carbon tetrachloride       | 0.10         |       |      |              |        |       |              |   |    |              |   |    |    |   |
| Bromodichloromethane       | 0.20         |       |      |              |        |       |              |   |    |              |   |    |    |   |
| 1,2-Dichloropropane        |              |       |      |              |        |       |              |   |    |              |   |    |    |   |
| cis-1,3-Dichloropropene    | 0.20         |       |      |              |        |       |              |   |    |              |   |    |    |   |
| Trichloroethene            | 0.30         |       |      |              |        |       |              |   |    |              |   |    |    |   |
| Dibromochloromethane       | 0.10         | 0.747 | 16.8 | J            | 0.975  | 30.5  | J            |   |    |              |   |    |    |   |
| 1,1,2-Trichloroethane      | 0.10         | 0.615 | 8.3  |              | 0.765  | 24.3  | J            |   |    |              |   |    |    |   |
| Benzene                    | 0.50         |       |      |              |        |       |              |   |    |              |   |    |    |   |
| trans-1,3-Dichloropropene  | 0.10         |       |      |              |        |       |              |   |    |              |   |    |    |   |
| Bromoform                  | 0.10         | 0.318 | 23.8 | J            | 0.453  | 42.3  | J            |   |    |              |   |    |    |   |
| 4-Methyl-2-pentanone       | 0.01         | 0.321 | 42.7 | J            | 0.289  | 10.0  | J            |   |    |              |   |    |    |   |
| 2-Hexanone                 | 0.01         | 0.129 | 22.6 | J            | 0.193  | 49.0  | J            |   |    |              |   |    |    |   |
| Tetrachloroethene          | 0.20         |       |      |              |        |       |              |   |    |              |   |    |    |   |
| 1,1,2,2-Tetrachloroethane  | 0.50         |       |      |              |        |       |              |   |    |              |   |    |    |   |
| Toluene                    | 0.40         |       |      |              |        |       |              |   |    |              |   |    |    |   |
| Chlorobenzene              | 0.50         |       |      |              |        |       |              |   |    |              |   |    |    |   |
| Ethylbenzene               | 0.10         |       |      |              |        |       |              |   |    |              |   |    |    |   |
| Styrene                    | 0.30         |       |      |              |        |       |              |   |    |              |   |    |    |   |
| Xylene (total) ormo-       | 0.30         | 1.556 | 15.2 | J            | 1.655  | 16.3  | J            |   |    |              |   |    |    |   |
| cis-1,2-dichloroethene     |              | 0.334 | 16.9 | J            | 0.319  | 15.7  | J            |   |    |              |   |    |    |   |
| Toluene-d8                 |              |       |      |              |        |       |              |   |    |              |   |    |    |   |
| Bromofluorobenzene         | 0.20         | 1.586 |      |              | 1.823  | 15.0  |              |   |    |              |   |    |    |   |
| 1,2-Dichloroethane-d4      |              | 0.325 |      |              | 0.375  | 15.5  |              |   |    |              |   |    |    |   |
| Samples affected:          |              |       |      |              |        |       |              |   |    |              |   |    |    |   |
|                            |              |       |      |              |        |       |              |   |    |              |   |    |    |   |
|                            |              |       |      |              |        |       |              |   |    |              |   |    |    |   |
|                            |              |       |      |              |        |       |              |   |    |              |   |    |    |   |
|                            |              |       |      |              |        |       |              |   |    |              |   |    |    |   |
|                            |              |       |      |              |        |       |              |   |    |              |   |    |    |   |
|                            |              |       |      |              |        |       |              |   |    |              |   |    |    |   |
|                            |              |       |      |              |        |       |              |   |    |              |   |    |    |   |
|                            |              |       |      |              |        |       |              |   |    |              |   |    |    |   |
|                            |              |       |      |              |        |       |              |   |    |              |   |    |    |   |
|                            |              |       |      |              |        |       |              |   |    |              |   |    |    |   |
|                            |              |       |      |              |        |       |              |   |    |              |   |    |    |   |

Reviewer's Init/Date: ag 4/16/99

J/R = All positive results are estimated "J" and non-detected results are unusable "R"  
 \* = These flags should be applied to the analytes on the sample data sheets.  
 # = Minimum Relative Response Factor

## ORGANIC DATA QUALIFIER DEFINITIONS

For the purpose of defining the flagging nomenclature used in this document, the following code letters and associated definitions are provided:

VALUE - when/if the result of a value is greater than or equal to the Contract Required Quantitation Limit (CRQL).

- U Indicates that the compound was analyzed for, but not detected. The sample quantitation limit corrected for dilution and percent moisture is reported.
- J Indicates an estimated value. This flag is used either when estimating a concentration for a tentatively identified compound or when the data indicates the presence of a compound where the result is less than the sample quantitation limit, but greater than zero. The flag is also used to indicate a reported result having an associated QC problem.
- R Indicates the data are unusable. (NOTE: The analyte may or may not be present.)
- N Indicates presumptive evidence of a compound. This flag is only used for a tentatively identified compound, where the identification is based on a mass spectral library search.
- P Indicates a pesticide/Aroclor target analyte when there is greater than 25% difference for the detected concentrations between the two GC columns. The lower of the two results is reported.
- C Indicates pesticide results that have been confirmed by GC/MS.
- B Indicates the analyte is detected in the associated blank as well as in the sample.
- E Indicates compounds whose concentrations exceed the calibration range of the instrument.
- D Indicates an identified compound in an analysis has been diluted. This flag alerts the data user to any differences between the concentrations reported in the two analysis.
- A Indicates tentatively identified compounds that are suspected to be aldol condensation products.
- G Indicates the TCLP Matrix Spike Recovery was greater than the upper limit of the analytical method.
- L Indicates the TCLP Matrix Spike Recovery was less than the lower limit of the analytical method.
- T Indicates the analyte is found in the associated TCLP extraction blank as well as in the sample.

X,Y,Z are reserved for laboratory defined flags.

# @AIR TOXICS LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

## WORK ORDER #: 9811144

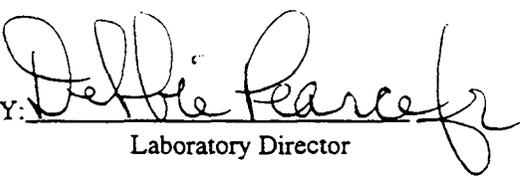
### Work Order Summary

**CLIENT:** Mr. Steve Peterson **BILL TO:** Same  
U.S. Army Corps of Engineers  
215 N. 17th Street, Zorinsky Bldg.  
Omaha, NE 68102-4978

**PHONE:** 402-221-7183 **P.O. # NR**  
**FAX:** 402-221-7769 **PROJECT # DACW45-99-P-0094 Himco Dump Superfund Site**  
**DATE RECEIVED:** 11/10/98  
**DATE COMPLETED:** 11/11/98  
**DATE REISSUED:** 11/24/98 To amend results for all samples.

| <u>FRACTION #</u> | <u>NAME</u>  | <u>TEST</u>            |
|-------------------|--------------|------------------------|
| 01A/B             | 7115A, 7115B | VOST 5041A/8260B/TIC's |
| 02A/B             | 7105A, 7105B | VOST 5041A/8260B/TIC's |
| 03A/B             | 7110A, 7110B | VOST 5041A/8260B/TIC's |
| 04A/B             | 7119A, 7119B | VOST 5041A/8260B/TIC's |
| 05A               | Lab Blank    | VOST 5041A/8260B/TIC's |

CERTIFIED BY:

  
Laboratory Director

DATE: 11/25/98

Certification numbers: CA ELAP - 1149, NY ELAP - 11291, UT ELAP - E-217

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA 95630  
(916) 985-1000 • (800) 985-5955 • FAX (916) 985-1020

**LABORATORY NARRATIVE**  
**Analysis of Volatile Organic Compounds in VOST Cartridges**  
**by EPA 5041A/8260B**  
**U.S. Army Corps of Engineers**  
**Work Order #9811144**

Four Tenax and Tenax/charcoal tube pairs (VOST cartridges) were received on November 10, 1998. The sacrificial temperature check vial was not provided with the shipment, therefore the actual temperature of the shipment was not recorded. The samples were received on ice and therefore their integrity is not in question. The laboratory performed the analysis via EPA SW-846 Method 5041A using GC/MS in the full scan mode. The method involves thermal desorption of the VOST cartridges for 11 min. at 180° C using an inert gas. The gas stream is then bubbled through 5 mL of organic free water and trapped on the sorbent trap of the purge and trap system. The trap is thermally desorbed to elute the components into the GC system for further separation. See the data sheets for the reporting limits for each compound.

Bag dilution was performed on sample 7115A, 7115B for screening purposes. Internal standard recoveries of chlorobenzene-d5 and 1,4-dichlorobenzene-d4 were slightly outside QC limits for sample 7115A, 7115B.

There were no other out of the ordinary circumstances to report.

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:

- B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
- J - Estimated Value.
- E - Exceeds instrument calibration range.
- S - Saturated Peak.
- Q - Exceeds quality control limits.
- U - Compound analyzed for but not detected above the detection limit.
- N - The identification is based on presumptive evidence.

# AIR TOXICS LTD.

SAMPLE NAME : 7115A, 7115B

ID#: 9811144-01A/B

Modified VOST 5041A

|              |         |                     |          |
|--------------|---------|---------------------|----------|
| File Name:   | 9111008 | Date of Collection: | 11/9/98  |
| Dil. Factor: | 1.2     | Date of Analysis:   | 11/10/98 |

| Compound                         | Det. Limit (nG) | Amount (nG)  |
|----------------------------------|-----------------|--------------|
| Chloromethane                    | 12              | Not Detected |
| Vinyl Chloride                   | 6.0             | Not Detected |
| Bromomethane                     | 12              | Not Detected |
| Chloroethane                     | 6.0             | Not Detected |
| 1,1-Dichloroethene               | 6.0             | Not Detected |
| Carbon Disulfide                 | 6.0             | Not Detected |
| Acetone                          | 60              | Not Detected |
| Methylene Chloride               | 6.0             | Not Detected |
| trans-1,2-Dichloroethene         | 6.0             | Not Detected |
| 1,1-Dichloroethane               | 6.0             | Not Detected |
| Vinyl Acetate                    | 12              | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 60              | Not Detected |
| Chloroform                       | 6.0             | Not Detected |
| 1,1,1-Trichloroethane            | 6.0             | Not Detected |
| Carbon Tetrachloride             | 6.0             | Not Detected |
| Benzene                          | 6.0             | 66           |
| 1,2-Dichloroethane               | 6.0             | Not Detected |
| Trichloroethene                  | 6.0             | Not Detected |
| 1,2-Dichloropropane              | 6.0             | Not Detected |
| Bromodichloromethane             | 6.0             | Not Detected |
| trans-1,3-Dichloropropene        | 6.0             | Not Detected |
| 4-Methyl-2-pentanone             | 12              | Not Detected |
| Toluene                          | 6.0             | 34           |
| cis-1,3-Dichloropropene          | 6.0             | Not Detected |
| 1,1,2-Trichloroethane            | 6.0             | Not Detected |
| Tetrachloroethene                | 6.0             | Not Detected |
| 2-Hexanone                       | 12              | Not Detected |
| Dibromochloromethane             | 6.0             | Not Detected |
| Chlorobenzene                    | 6.0             | Not Detected |
| Ethyl Benzene                    | 6.0             | 5.9          |
| m,p-Xylene                       | 6.0             | 20           |
| o-Xylene                         | 6.0             | 6.2          |
| Styrene                          | 6.0             | 19           |
| Bromoform                        | 6.0             | Not Detected |
| 1,1,2,2-Tetrachloroethane        | 6.0             | Not Detected |
| cis-1,2-Dichloroethene           | 6.0             | Not Detected |

**TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported**

| Compound             | CAS Number | Match Quality | Amount (nG) |
|----------------------|------------|---------------|-------------|
| Tetradecane, 1-iodo- | 19218-94-1 | 72 %          | 40          |

Container Type: VOST Tube

# AIR TOXICS LTD.

SAMPLE NAME : 7115A, 7115B

ID#: 9811144-01A/B

Modified VOST 5041A

|                     |                |                            |                 |
|---------------------|----------------|----------------------------|-----------------|
| <b>File Name:</b>   | <b>9111008</b> | <b>Date of Collection:</b> | <b>11/9/98</b>  |
| <b>Dil. Factor:</b> | <b>1.2</b>     | <b>Date of Analysis:</b>   | <b>11/10/98</b> |

| Surrogates            | % Recovery | Method Limits |
|-----------------------|------------|---------------|
| 1,2-Dichloroethane-d4 | 83         | 69-112        |
| Toluene-d8            | 98         | 72-134        |
| 4-Bromofluorobenzene  | 114        | 78-119        |
| Dibromofluoromethane  | 98         | 70-130        |
| Benzene-d6            | 118        | 70-130        |

# AIR TOXICS LTD.

SAMPLE NAME : 7105A, 7105B

ID#: 9811144-02A/B

Modified VOST 5041A

|              |         |                     |          |
|--------------|---------|---------------------|----------|
| File Name:   | 9111005 | Date of Collection: | 11/9/98  |
| Dil. Factor: | 1.0     | Date of Analysis:   | 11/10/98 |

| Compound                         | Det. Limit (nG) | Amount (nG)  |
|----------------------------------|-----------------|--------------|
| Chloromethane                    | 10              | Not Detected |
| Vinyl Chloride                   | 5.0             | Not Detected |
| Bromomethane                     | 10              | Not Detected |
| Chloroethane                     | 5.0             | Not Detected |
| 1,1-Dichloroethene               | 5.0             | Not Detected |
| Carbon Disulfide                 | 5.0             | Not Detected |
| Acetone                          | 50              | 52           |
| Methylene Chloride               | 5.0             | Not Detected |
| trans-1,2-Dichloroethene         | 5.0             | Not Detected |
| 1,1-Dichloroethane               | 5.0             | Not Detected |
| Vinyl Acetate                    | 10              | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 50              | Not Detected |
| Chloroform                       | 5.0             | Not Detected |
| 1,1,1-Trichloroethane            | 5.0             | Not Detected |
| Carbon Tetrachloride             | 5.0             | Not Detected |
| Benzene                          | 5.0             | 12           |
| 1,2-Dichloroethane               | 5.0             | Not Detected |
| Trichloroethene                  | 5.0             | Not Detected |
| 1,2-Dichloropropane              | 5.0             | Not Detected |
| Bromodichloromethane             | 5.0             | Not Detected |
| trans-1,3-Dichloropropene        | 5.0             | Not Detected |
| 4-Methyl-2-pentanone             | 10              | Not Detected |
| Toluene                          | 5.0             | 43           |
| cis-1,3-Dichloropropene          | 5.0             | Not Detected |
| 1,1,2-Trichloroethane            | 5.0             | Not Detected |
| Tetrachloroethene                | 5.0             | Not Detected |
| 2-Hexanone                       | 10              | Not Detected |
| Dibromochloromethane             | 5.0             | Not Detected |
| Chlorobenzene                    | 5.0             | Not Detected |
| Ethyl Benzene                    | 5.0             | 5.4          |
| m,p-Xylene                       | 5.0             | 18           |
| o-Xylene                         | 5.0             | 6.0          |
| Styrene                          | 5.0             | 18           |
| Bromoform                        | 5.0             | Not Detected |
| 1,1,2,2-Tetrachloroethane        | 5.0             | Not Detected |
| cis-1,2-Dichloroethene           | 5.0             | Not Detected |

### TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported

| Compound            | CAS Number | Match Quality | Amount (nG) |
|---------------------|------------|---------------|-------------|
| Undecane, 3-methyl- | 1002-43-3  | Manual ID     | 26          |
| Nonanal             | 124-19-6   | 83 %          | 28          |

Container Type: VOST Tube

# AIR TOXICS LTD.

SAMPLE NAME : 7105A, 7105B

ID#: 9811144-02A/B

Modified VOST 5041A

|              |         |                     |          |
|--------------|---------|---------------------|----------|
| File Name:   | 9111005 | Date of Collection: | 11/9/98  |
| Dil. Factor: | 1:0     | Date of Analysis:   | 11/10/98 |

| Surrogates            | % Recovery | Method Limits |
|-----------------------|------------|---------------|
| 1,2-Dichloroethane-d4 | 94         | 69-112        |
| Toluene-d8            | 116        | 72-134        |
| 4-Bromofluorobenzene  | 107        | 78-119        |
| Dibromofluoromethane  | 101        | 70-130        |

# AIR TOXICS LTD.

SAMPLE NAME : 7110A, 7110B

ID#: 9811144-03A/B

Modified VOST 5041A

|              |         |                     |          |
|--------------|---------|---------------------|----------|
| File Name:   | 9111006 | Date of Collection: | 11/9/98  |
| Dil. Factor: | 1.0     | Date of Analysis:   | 11/10/98 |

| Compound                         | Det. Limit (nG) | Amount (nG)  |
|----------------------------------|-----------------|--------------|
| Chloromethane                    | 10              | Not Detected |
| Vinyl Chloride                   | 5.0             | Not Detected |
| Bromomethane                     | 10              | Not Detected |
| Chloroethane                     | 5.0             | Not Detected |
| 1,1-Dichloroethene               | 5.0             | Not Detected |
| Carbon Disulfide                 | 5.0             | Not Detected |
| Acetone                          | 50              | Not Detected |
| Methylene Chloride               | 5.0             | Not Detected |
| trans-1,2-Dichloroethene         | 5.0             | Not Detected |
| 1,1-Dichloroethane               | 5.0             | Not Detected |
| Vinyl Acetate                    | 10              | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 50              | Not Detected |
| Chloroform                       | 5.0             | Not Detected |
| 1,1,1-Trichloroethane            | 5.0             | Not Detected |
| Carbon Tetrachloride             | 5.0             | Not Detected |
| Benzene                          | 5.0             | 5.8          |
| 1,2-Dichloroethane               | 5.0             | Not Detected |
| Trichloroethene                  | 5.0             | Not Detected |
| 1,2-Dichloropropane              | 5.0             | Not Detected |
| Bromodichloromethane             | 5.0             | Not Detected |
| trans-1,3-Dichloropropene        | 5.0             | Not Detected |
| 4-Methyl-2-pentanone             | 10              | Not Detected |
| Toluene                          | 5.0             | 17           |
| cis-1,3-Dichloropropene          | 5.0             | Not Detected |
| 1,1,2-Trichloroethane            | 5.0             | Not Detected |
| Tetrachloroethene                | 5.0             | Not Detected |
| 2-Hexanone                       | 10              | Not Detected |
| Dibromochloromethane             | 5.0             | Not Detected |
| Chlorobenzene                    | 5.0             | Not Detected |
| Ethyl Benzene                    | 5.0             | Not Detected |
| m,p-Xylene                       | 5.0             | 6.6          |
| o-Xylene                         | 5.0             | Not Detected |
| Styrene                          | 5.0             | 9.4          |
| Bromoform                        | 5.0             | Not Detected |
| 1,1,2,2-Tetrachloroethane        | 5.0             | Not Detected |
| cis-1,2-Dichloroethene           | 5.0             | Not Detected |

### TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported

| Compound        | CAS Number | Match Quality | Amount (nG) |
|-----------------|------------|---------------|-------------|
| None Identified |            |               |             |
| None Identified |            |               |             |

Container Type: VOST Tube

# AIR TOXICS LTD.

SAMPLE NAME : 7110A, 7110B

ID#: 9811144-03A/B

Modified VOST 5041A

|              |         |                     |          |
|--------------|---------|---------------------|----------|
| File Name:   | 9111006 | Date of Collection: | 11/9/98  |
| Dil. Factor: | 1.0     | Date of Analysis:   | 11/10/98 |

| Surrogates            | % Recovery | Method Limits |
|-----------------------|------------|---------------|
| 1,2-Dichloroethane-d4 | 86         | 69-112        |
| Toluene-d8            | 111        | 72-134        |
| 4-Bromofluorobenzene  | 98         | 78-119        |
| Dibromofluoromethane  | 96         | 70-130        |

# AIR TOXICS LTD.

SAMPLE NAME : 7119A, 7119B

ID#: 9811144-04A/B

Modified VOST 5041A

|              |         |                     |          |
|--------------|---------|---------------------|----------|
| File Name:   | 9111007 | Date of Collection: | 11/9/98  |
| Dil. Factor: | 1.0     | Date of Analysis:   | 11/10/98 |

| Compound                         | Det. Limit (nG) | Amount (nG)  |
|----------------------------------|-----------------|--------------|
| Chloromethane                    | 10              | Not Detected |
| Vinyl Chloride                   | 5.0             | Not Detected |
| Bromomethane                     | 10              | Not Detected |
| Chloroethane                     | 5.0             | Not Detected |
| 1,1-Dichloroethene               | 5.0             | Not Detected |
| Carbon Disulfide                 | 5.0             | Not Detected |
| Acetone                          | 50              | Not Detected |
| Methylene Chloride               | 5.0             | Not Detected |
| trans-1,2-Dichloroethene         | 5.0             | Not Detected |
| 1,1-Dichloroethane               | 5.0             | Not Detected |
| Vinyl Acetate                    | 10              | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 50              | Not Detected |
| Chloroform                       | 5.0             | Not Detected |
| 1,1,1-Trichloroethane            | 5.0             | Not Detected |
| Carbon Tetrachloride             | 5.0             | Not Detected |
| Benzene                          | 5.0             | Not Detected |
| 1,2-Dichloroethane               | 5.0             | Not Detected |
| Trichloroethene                  | 5.0             | Not Detected |
| 1,2-Dichloropropane              | 5.0             | Not Detected |
| Bromodichloromethane             | 5.0             | Not Detected |
| trans-1,3-Dichloropropene        | 5.0             | Not Detected |
| 4-Methyl-2-pentanone             | 10              | Not Detected |
| Toluene                          | 5.0             | Not Detected |
| cis-1,3-Dichloropropene          | 5.0             | Not Detected |
| 1,1,2-Trichloroethane            | 5.0             | Not Detected |
| Tetrachloroethene                | 5.0             | Not Detected |
| 2-Hexanone                       | 10              | Not Detected |
| Dibromochloromethane             | 5.0             | Not Detected |
| Chlorobenzene                    | 5.0             | Not Detected |
| Ethyl Benzene                    | 5.0             | Not Detected |
| m,p-Xylene                       | 5.0             | Not Detected |
| o-Xylene                         | 5.0             | Not Detected |
| Styrene                          | 5.0             | Not Detected |
| Bromoform                        | 5.0             | Not Detected |
| 1,1,2,2-Tetrachloroethane        | 5.0             | Not Detected |
| cis-1,2-Dichloroethene           | 5.0             | Not Detected |

### TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported

| Compound        | CAS Number | Match Quality | Amount (nG) |
|-----------------|------------|---------------|-------------|
| None Identified |            |               |             |
| None Identified |            |               |             |

Container Type: VOST Tube

# AIR TOXICS LTD.

SAMPLE NAME : 7119A, 7119B

ID#: 9811144-04A/B

Modified VOST 5041A

|              |         |                     |          |
|--------------|---------|---------------------|----------|
| File Name:   | 9111007 | Date of Collection: | 11/9/98  |
| Dil. Factor: | 1.0     | Date of Analysis:   | 11/10/98 |

| Surrogates            | % Recovery | Method Limits |
|-----------------------|------------|---------------|
| 1,2-Dichloroethane-d4 | 86         | 69-112        |
| Toluene-d8            | 90         | 72-134        |
| 4-Bromofluorobenzene  | 99         | 78-119        |
| Dibromofluoromethane  | 98         | 70-130        |

# AIR TOXICS LTD.

SAMPLE NAME : Lab Blank

ID#: 9811144-05A

Modified VOST 5041A

|              |         |                            |
|--------------|---------|----------------------------|
| File Name:   | 9111004 | Date of Collection: NA     |
| Dil. Factor: | 1.0     | Date of Analysis: 11/10/98 |

| Compound                         | Det. Limit (nG) | Amount (nG)  |
|----------------------------------|-----------------|--------------|
| Chloromethane                    | 10              | Not Detected |
| Vinyl Chloride                   | 5.0             | Not Detected |
| Bromomethane                     | 10              | Not Detected |
| Chloroethane                     | 5.0             | Not Detected |
| 1,1-Dichloroethene               | 5.0             | Not Detected |
| Carbon Disulfide                 | 5.0             | Not Detected |
| Acetone                          | 50              | Not Detected |
| Methylene Chloride               | 5.0             | Not Detected |
| trans-1,2-Dichloroethene         | 5.0             | Not Detected |
| 1,1-Dichloroethane               | 5.0             | Not Detected |
| Vinyl Acetate                    | 10              | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 50              | Not Detected |
| Chloroform                       | 5.0             | Not Detected |
| 1,1,1-Trichloroethane            | 5.0             | Not Detected |
| Carbon Tetrachloride             | 5.0             | Not Detected |
| Benzene                          | 5.0             | Not Detected |
| 1,2-Dichloroethane               | 5.0             | Not Detected |
| Trichloroethene                  | 5.0             | Not Detected |
| 1,2-Dichloropropane              | 5.0             | Not Detected |
| Bromodichloromethane             | 5.0             | Not Detected |
| trans-1,3-Dichloropropene        | 5.0             | Not Detected |
| 4-Methyl-2-pentanone             | 10              | Not Detected |
| Toluene                          | 5.0             | Not Detected |
| cis-1,3-Dichloropropene          | 5.0             | Not Detected |
| 1,1,2-Trichloroethane            | 5.0             | Not Detected |
| Tetrachloroethene                | 5.0             | Not Detected |
| 2-Hexanone                       | 10              | Not Detected |
| Dibromochloromethane             | 5.0             | Not Detected |
| Chlorobenzene                    | 5.0             | Not Detected |
| Ethyl Benzene                    | 5.0             | Not Detected |
| m,p-Xylene                       | 5.0             | Not Detected |
| o-Xylene                         | 5.0             | Not Detected |
| Styrene                          | 5.0             | Not Detected |
| Bromoform                        | 5.0             | Not Detected |
| 1,1,2,2-Tetrachloroethane        | 5.0             | Not Detected |
| cis-1,2-Dichloroethene           | 5.0             | Not Detected |

**TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported**

| Compound        | CAS Number | Match Quality | Amount (nG) |
|-----------------|------------|---------------|-------------|
| None Identified |            |               |             |
| None Identified |            |               |             |

Container Type: NA

# AIR TOXICS LTD.

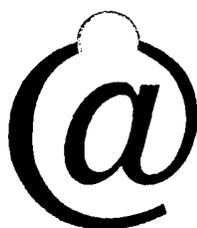
SAMPLE NAME : Lab Blank

ID#: 9811144-05A

Modified VOST 5041A

|              |         |                     |          |
|--------------|---------|---------------------|----------|
| File Name:   | 9111004 | Date of Collection: | NA       |
| Dil. Factor: | 1.0     | Date of Analysis:   | 11/10/98 |

| Surrogates            | % Recovery | Method Limits |
|-----------------------|------------|---------------|
| 1,2-Dichloroethane-d4 | 95         | 69-112        |
| Toluene-d8            | 108        | 72-134        |
| 4-Bromofluorobenzene  | 96         | 78-119        |
| Dibromofluoromethane  | 91         | 70-130        |



**AIR TOXICS LTD.**

AN ENVIRONMENTAL ANALYTICAL LABORATORY

180 BLUE RAVINE ROAD, B  
FOLSOM, CA 95630-4719  
(916) 985-1000 FAX: (916) 985-1020

Nº 017739

Page L of L

# CHAIN-OF-CUSTODY RECORD

|  |   |  |
|--|---|--|
| Contact Person <u>Richard Grabowski</u><br>Company <u>U.S. Army Corps of Engineers</u><br>Address <u>215 N. 17<sup>th</sup> St.</u> City <u>Omaha</u> State <u>NE</u> Zip <u>68102</u><br>Phone <u>(402) 221-7774</u> FAX <u>(402) 221-7769</u><br>Collected By: Signature <u>R. Grabowski</u> | Project Info:<br>P.O. # _____<br>Project # _____<br>Project Name <u>Himco Dump Superfund Site</u> | Turn Around Time:<br><input type="checkbox"/> Normal<br><input checked="" type="checkbox"/> Rush <u>24-Hr TAT</u><br>Specify _____ |
|--|---|--|

| Lab I.D. | Field Sample I.D. | Date & Time  | Analyses Requested | Canister Pressure / Vacuum |       |         |
|----------|-------------------|--------------|--------------------|----------------------------|-------|---------|
|          |                   |              |                    | Initial                    | Final | Receipt |
| 01A/B    | 7115A, 7115B      | 11/9/98 1259 | VOCs               | N/A                        | N/A   |         |
| 02A/B    | 7105A, 7105B      | 11/9/98 1230 | VOCs               | N/A                        | N/A   |         |
| 03A/B    | 7110A, 7110B      | 11/7/98 1215 | VOCs               | N/A                        | N/A   |         |
| 04A/B    | 7119A, 7119B      | 11/9/98 0700 | VOCs               | N/A                        | N/A   |         |
|          |                   |              |                    |                            |       |         |
|          |                   |              |                    |                            |       |         |
|          |                   |              |                    |                            |       |         |
|          |                   |              |                    |                            |       |         |
|          |                   |              |                    |                            |       |         |
|          |                   |              |                    |                            |       |         |

|   |   |  |
|---|---|--|
| Relinquished By: Signature <u>[Signature]</u> Date/Time <u>11/9/98 1930</u> | Print Name <u>RICHARD J. GRABOWSKI</u>                                    | Notes:<br>Please fax results to R. Grabowski<br>c/o Signature Inn.<br>Fax # 219-264-7222 |
| Relinquished By: (Signature) Date/Time                                      | Received By: (Signature) Date/Time  |  |
| Relinquished By: (Signature) Date/Time                                      | Received By: (Signature) Date/Time <u>[Signature]</u> <u>ATC 11/10/98</u> |  |

|              |                            |                               |                     |                               |                          |                       |   |                             |
|--------------|----------------------------|-------------------------------|---------------------|-------------------------------|--------------------------|-----------------------|---|-----------------------------|
| Lab Use Only | Shipper Name <u>Fed ex</u> | Air Bill # <u>80928652005</u> | Opened By: <u>B</u> | Date/Time <u>11/10/98 910</u> | Temp. (°C) <u>in ice</u> | Condition <u>Good</u> | Custody Seals Intact? <u>Yes</u> <input checked="" type="radio"/> No <input type="radio"/> None <input type="radio"/> N/A <input type="radio"/> | Work Order # <u>9811144</u> |
|--------------|----------------------------|-------------------------------|---------------------|-------------------------------|--------------------------|-----------------------|---|-----------------------------|

# @AIR TOXICS LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

## WORK ORDER #: 9811212

### Work Order Summary

**CLIENT:** Mr. Steve Peterson  
U.S. Army Corps of Engineers  
215 N. 17th Street, Zorinsky Bldg.  
Omaha, NE 68102-4978

**BILL TO:** Same

**PHONE:** 402-221-7183  
**FAX:** 402-221-7769  
**DATE RECEIVED:** 11/12/98  
**DATE COMPLETED:** 12/1/98

**P.O. #** NR  
**PROJECT #** Himco Dump Superfund Site

| <u>FRACTION #</u> | <u>NAME</u> | <u>TEST</u>            |
|-------------------|-------------|------------------------|
| 01A/B             | 7210A,7210B | VOST 5041A/8260B/TIC's |
| 02A/B*            | 7208A,7208B | VOST 5041A/8260B/TIC's |
| 03A/B             | 7212A,7212B | VOST 5041A/8260B/TIC's |
| 04A/B             | 7220A,7220B | VOST 5041A/8260B/TIC's |
| 05A/B             | 7204A,7204B | VOST 5041A/8260B/TIC's |
| 06A/B             | 7218A,7218B | VOST 5041A/8260B/TIC's |
| 07A               | Lab Blank   | VOST 5041A/8260B/TIC's |

**LAB NARRATIVE:**

\*Sample not analyzed. See Laboratory Narrative.

CERTIFIED BY:   
Laboratory Director

DATE: 12/1/98

Certification numbers: CA ELAP - 1149, NY ELAP - 11291, UT ELAP - E-217

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA 95630  
(916) 985-1000 • (800) 985-5955 • FAX (916) 985-1020

**LABORATORY NARRATIVE**  
**Analysis of Volatile Organic Compounds in VOST Cartridges**  
**by EPA 5041A/8260B**  
**U.S. Army Corps of Engineers**  
**Work Order #9811212**

Six Tenax and Tenax/charcoal tube pairs (VOST cartridges) were received on November 12, 1998. The sacrificial temperature check vial was not provided with the shipment, therefore the actual temperature of the shipment was not recorded. The samples were received on ice and therefore their integrity is not in question. The laboratory performed the analysis via EPA SW-846 Method 5041A using GC/MS in the full scan mode. The method involves thermal desorption of the VOST cartridges for 11 min. at 180° C using an inert gas. The gas stream is then bubbled through 5 mL of organic free water and trapped on the sorbent trap of the purge and trap system. The trap is thermally desorbed to elute the components into the GC system for further separation. See the data sheets for the reporting limits for each compound.

Bag dilution was performed on sample 7210A,7210B to screen the sample. Sample 7208A,7208B contained a thick black liquid therefore it could not be desorbed and analyzed. For samples 7212A and 7212B, the internal standard recovery of 1,4 DCB-d4 and surrogate recovery of BFB were outside QC limits possibly due to matrix interference. Reanalysis to confirm matrix effect is not possible for VOST tube samples.

There were no other out of the ordinary circumstances to report.

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:

- B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
- J - Estimated Value.
- E - Exceeds instrument calibration range.
- S - Saturated Peak.
- Q - Exceeds quality control limits.
- U - Compound analyzed for but not detected above the detection limit.
- N - The identification is based on presumptive evidence.

# AIR TOXICS LTD.

SAMPLE NAME : 7210A,7210B

ID#: 9811212-01A/B

Modified VOST 5041A

|                     |         |                            |          |
|---------------------|---------|----------------------------|----------|
| <b>File Name:</b>   | 9111312 | <b>Date of Collection:</b> | 11/11/98 |
| <b>Dil. Factor:</b> | 1.1     | <b>Date of Analysis:</b>   | 11/13/98 |

| Compound                         | Det. Limit (nG) | Amount (nG)  |
|----------------------------------|-----------------|--------------|
| Chloromethane                    | 11              | Not Detected |
| Vinyl Chloride                   | 5.5             | 6.6          |
| Bromomethane                     | 11              | Not Detected |
| Chloroethane                     | 5.5             | 24           |
| 1,1-Dichloroethene               | 5.5             | Not Detected |
| Carbon Disulfide                 | 5.5             | 13           |
| Acetone                          | 55              | 160          |
| Methylene Chloride               | 5.5             | Not Detected |
| trans-1,2-Dichloroethene         | 5.5             | 17           |
| 1,1-Dichloroethane               | 5.5             | 2000 E       |
| Vinyl Acetate                    | 11              | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 55              | Not Detected |
| Chloroform                       | 5.5             | 63           |
| 1,1,1-Trichloroethane            | 5.5             | 210          |
| Carbon Tetrachloride             | 5.5             | 5.5          |
| Benzene                          | 5.5             | 40           |
| 1,2-Dichloroethane               | 5.5             | Not Detected |
| Trichloroethene                  | 5.5             | 150          |
| 1,2-Dichloropropane              | 5.5             | Not Detected |
| Bromodichloromethane             | 5.5             | Not Detected |
| trans-1,3-Dichloropropene        | 5.5             | 7.8          |
| 4-Methyl-2-pentanone             | 11              | Not Detected |
| Toluene                          | 5.5             | 12           |
| cis-1,3-Dichloropropene          | 5.5             | 5.9          |
| 1,1,2-Trichloroethane            | 5.5             | Not Detected |
| Tetrachloroethene                | 5.5             | 13000 E      |
| 2-Hexanone                       | 11              | Not Detected |
| Dibromochloromethane             | 5.5             | Not Detected |
| Chlorobenzene                    | 5.5             | Not Detected |
| Ethyl Benzene                    | 5.5             | Not Detected |
| m,p-Xylene                       | 5.5             | 13           |
| o-Xylene                         | 5.5             | Not Detected |
| Styrene                          | 5.5             | 29           |
| Bromoform                        | 5.5             | Not Detected |
| 1,1,2,2-Tetrachloroethane        | 5.5             | Not Detected |
| cis-1,2-Dichloroethene           | 5.5             | Not Detected |

### TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported

| Compound                                 | CAS Number | Match Quality | Amount (nG) |
|--|------------|---------------|-------------|
| Methane, trichlorofluoro-                | 75-69-4    | Manual ID     | 2600        |
| Ethane, 1,2-dichloro-1,1,2-trifluoro-    | 354-23-4   | 91 %          | 1900        |
| Ethane, 1,1,2-trichloro-1,2,2-trifluoro- | 76-13-1    | Manual ID     | 1200        |
| Hexanal, 5-methyl-                       | 1860-39-5  | Manual ID     | 63          |
| Nonanal                                  | 124-19-6   | 83 %          | 130         |
| Benzene, 1,2,4-trichloro-                | 120-82-1   | 97 %          | 67          |

# AIR TOXICS LTD.

SAMPLE NAME : 7210A,7210B

ID#: 9811212-01A/B

Modified VOST 5041A

|              |         |                     |          |
|--------------|---------|---------------------|----------|
| File Name:   | 9111312 | Date of Collection: | 11/1/98  |
| Dil. Factor: | E-1     | Date of Analysis:   | 11/13/98 |

## TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported

| Compound          | CAS Number | Match Quality | Amount (nG) |
|-------------------|------------|---------------|-------------|
| Unknown           | NA         | NA            | 130         |
| Decanal           | 112-31-2   | Manual ID     | 35          |
| Decane, 5-propyl- | 17312-62-8 | 80 %          | 42          |

E = Exceeds instrument calibration range.

Container Type: VOST Tube

| Surrogates            | % Recovery | Method Limits |
|-----------------------|------------|---------------|
| 1,2-Dichloroethane-d4 | 95         | 69-112        |
| Toluene-d8            | 116        | 72-134        |
| 4-Bromofluorobenzene  | 116        | 78-119        |
| Dibromofluoromethane  | 92         | 70-130        |
| Benzene-d6            | 82         | 70-130        |

# AIR TOXICS LTD.

SAMPLE NAME : 7212A,7212B

ID#: 9811212-03A/B

Modified VOST 5041A

|             |         |                     |          |
|-------------|---------|---------------------|----------|
| File Name:  | 9111308 | Date of Collection: | 11/11/98 |
| DIL Factor: | 1.0     | Date of Analysis:   | 11/13/98 |

| Compound                         | Det. Limit (nG) | Amount (nG)  |
|----------------------------------|-----------------|--------------|
| Chloromethane                    | 10              | Not Detected |
| Vinyl Chloride                   | 5.0             | Not Detected |
| Bromomethane                     | 10              | Not Detected |
| Chloroethane                     | 5.0             | Not Detected |
| 1,1-Dichloroethene               | 5.0             | Not Detected |
| Carbon Disulfide                 | 5.0             | 5.1          |
| Acetone                          | 50              | 110          |
| Methylene Chloride               | 5.0             | Not Detected |
| trans-1,2-Dichloroethene         | 5.0             | Not Detected |
| 1,1-Dichloroethane               | 5.0             | Not Detected |
| Vinyl Acetate                    | 10              | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 50              | Not Detected |
| Chloroform                       | 5.0             | Not Detected |
| 1,1,1-Trichloroethane            | 5.0             | 11           |
| Carbon Tetrachloride             | 5.0             | Not Detected |
| Benzene                          | 5.0             | Not Detected |
| 1,2-Dichloroethane               | 5.0             | Not Detected |
| Trichloroethene                  | 5.0             | Not Detected |
| 1,2-Dichloropropane              | 5.0             | Not Detected |
| Bromodichloromethane             | 5.0             | Not Detected |
| trans-1,3-Dichloropropene        | 5.0             | Not Detected |
| 4-Methyl-2-pentanone             | 10              | Not Detected |
| Toluene                          | 5.0             | Not Detected |
| cis-1,3-Dichloropropene          | 5.0             | Not Detected |
| 1,1,2-Trichloroethane            | 5.0             | Not Detected |
| Tetrachloroethene                | 5.0             | 47           |
| 2-Hexanone                       | 10              | Not Detected |
| Dibromochloromethane             | 5.0             | Not Detected |
| Chlorobenzene                    | 5.0             | Not Detected |
| Ethyl Benzene                    | 5.0             | Not Detected |
| m,p-Xylene                       | 5.0             | Not Detected |
| o-Xylene                         | 5.0             | Not Detected |
| Styrene                          | 5.0             | Not Detected |
| Bromoform                        | 5.0             | Not Detected |
| 1,1,2,2-Tetrachloroethane        | 5.0             | Not Detected |
| cis-1,2-Dichloroethene           | 5.0             | Not Detected |

## TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported

| Compound                    | CAS Number | Match Quality | Amount (nG) |
|-----------------------------|------------|---------------|-------------|
| Methane, trichlorofluoro-   | 75-69-4    | 90 %          | 35          |
| Heptanal                    | 111-71-7   | Manual ID     | 28          |
| Nonanal                     | 124-19-6   | 83 %          | 190         |
| Decanal                     | 112-31-2   | 90 %          | 73          |
| 1,1-Dodecanediol, diacetate | 56438-07-4 | 91 %          | 31          |
| Octacosane                  | 630-02-4   | 86 %          | 140         |

# AIR TOXICS LTD.

SAMPLE NAME : 7212A,7212B

ID#: 9811212-03A/B

Modified VOST 5041A

|            |         |                    |          |
|------------|---------|--------------------|----------|
| File Name  | 9111308 | Date of Collection | 11/11/98 |
| Dil Factor | 1.0     | Date of Analysis   | 11/13/98 |

## TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported

| Compound                                 | CAS Number | Match Quality | Amount (nG) |
|--|------------|---------------|-------------|
| Pentadecane                              | 629-62-9   | 97 %          | 76          |
| 2,5-Cyclohexadiene-1,4-dione, 2,6-bis(1, | 719-22-2   | 98 %          | 32          |

Q = Exceeds Quality Control limits, possibly due to matrix effects.

Container Type: VOST Tube

| Surrogates            | % Recovery | Method Limits |
|-----------------------|------------|---------------|
| 1,2-Dichloroethane-d4 | 87         | 69-112        |
| Toluene-d8            | 114        | 72-134        |
| 4-Bromofluorobenzene  | 211 Q      | 78-119        |
| Dibromofluoromethane  | 101        | 70-130        |

# AIR TOXICS LTD.

SAMPLE NAME : 7220A,7220B

ID#: 9811212-04A/B

Modified VOST 5041A

|              |         |                     |          |
|--------------|---------|---------------------|----------|
| File Name:   | 9111309 | Date of Collection: | 11/11/98 |
| Dil. Factor: | 1.0     | Date of Analysis:   | 11/13/98 |

| Compound                         | Det. Limit (nG) | Amount (nG)  |
|----------------------------------|-----------------|--------------|
| Chloromethane                    | 10              | Not Detected |
| Vinyl Chloride                   | 5.0             | Not Detected |
| Bromomethane                     | 10              | Not Detected |
| Chloroethane                     | 5.0             | Not Detected |
| 1,1-Dichloroethene               | 5.0             | Not Detected |
| Carbon Disulfide                 | 5.0             | Not Detected |
| Acetone                          | 50              | 51           |
| Methylene Chloride               | 5.0             | Not Detected |
| trans-1,2-Dichloroethene         | 5.0             | Not Detected |
| 1,1-Dichloroethane               | 5.0             | Not Detected |
| Vinyl Acetate                    | 10              | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 50              | Not Detected |
| Chloroform                       | 5.0             | 26           |
| 1,1,1-Trichloroethane            | 5.0             | 9.3          |
| Carbon Tetrachloride             | 5.0             | Not Detected |
| Benzene                          | 5.0             | Not Detected |
| 1,2-Dichloroethane               | 5.0             | Not Detected |
| Trichloroethene                  | 5.0             | Not Detected |
| 1,2-Dichloropropane              | 5.0             | Not Detected |
| Bromodichloromethane             | 5.0             | Not Detected |
| trans-1,3-Dichloropropene        | 5.0             | Not Detected |
| 4-Methyl-2-pentanone             | 10              | Not Detected |
| Toluene                          | 5.0             | Not Detected |
| cis-1,3-Dichloropropene          | 5.0             | Not Detected |
| 1,1,2-Trichloroethane            | 5.0             | Not Detected |
| Tetrachloroethene                | 5.0             | 8.7          |
| 2-Hexanone                       | 10              | Not Detected |
| Dibromochloromethane             | 5.0             | Not Detected |
| Chlorobenzene                    | 5.0             | Not Detected |
| Ethyl Benzene                    | 5.0             | Not Detected |
| m,p-Xylene                       | 5.0             | Not Detected |
| o-Xylene                         | 5.0             | Not Detected |
| Styrene                          | 5.0             | Not Detected |
| Bromoform                        | 5.0             | Not Detected |
| 1,1,2,2-Tetrachloroethane        | 5.0             | Not Detected |
| cis-1,2-Dichloroethene           | 5.0             | Not Detected |

### TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported

| Compound                         | CAS Number | Match Quality | Amount (nG) |
|----------------------------------|------------|---------------|-------------|
| Methane, trichlorofluoro-        | 75-69-4    | 90 %          | 30          |
| cis-1-Butyl-2-methylcyclopropane | 38851-69-3 | 91 %          | 50          |
| Heptanal                         | 111-71-7   | Manual ID     | 46          |
| 3-Heptanone, 5-methyl-           | 541-85-5   | 72 %          | 77          |
| Cyclopropane, pentyl-            | 2511-91-3  | 78 %          | 130         |
| Nonanal                          | 124-19-6   | 83 %          | 130         |

# AIR TOXICS LTD.

SAMPLE NAME : 7220A,7220B

ID#: 9811212-04A/B

Modified VOST 5041A

|              |         |                     |          |
|--------------|---------|---------------------|----------|
| File Name:   | 9111309 | Date of Collection: | 11/11/98 |
| Dil. Factor: | 1.0     | Date of Analysis:   | 11/13/98 |

| TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported |            |               |             |
|--|------------|---------------|-------------|
| Compound   | CAS Number | Match Quality | Amount (ng) |
| Cyclooctane, 1,4-dimethyl-, trans-                 | 13151-98-9 | Manual ID     | 31          |
| Decanal  | 112-31-2   | Manual ID     | 90          |
| Tetradecane  | 629-59-4   | 97 %          | 64          |
| Octacosane   | 630-02-4   | 86 %          | 49          |

Container Type: VOST Tube

| Surrogates            | % Recovery | Method Limits |
|-----------------------|------------|---------------|
| 1,2-Dichloroethane-d4 | 87         | 69-112        |
| Toluene-d8            | 105        | 72-134        |
| 4-Bromofluorobenzene  | 94         | 78-119        |
| Dibromofluoromethane  | 95         | 70-130        |

# AIR TOXICS LTD.

SAMPLE NAME : 7204A,7204B

ID#: 9811212-05A/B

Modified VOST 5041A

|              |         |                     |          |
|--------------|---------|---------------------|----------|
| File Name:   | 9111310 | Date of Collection: | 11/11/98 |
| Dil. Factor: | 1.0     | Date of Analysis:   | 11/13/98 |

| Compound                         | Det. Limit (nG) | Amount (nG)  |
|----------------------------------|-----------------|--------------|
| Chloromethane                    | 10              | Not Detected |
| Vinyl Chloride                   | 5.0             | Not Detected |
| Bromomethane                     | 10              | Not Detected |
| Chloroethane                     | 5.0             | Not Detected |
| 1,1-Dichloroethene               | 5.0             | Not Detected |
| Carbon Disulfide                 | 5.0             | Not Detected |
| Acetone                          | 50              | Not Detected |
| Methylene Chloride               | 5.0             | Not Detected |
| trans-1,2-Dichloroethene         | 5.0             | Not Detected |
| 1,1-Dichloroethane               | 5.0             | Not Detected |
| Vinyl Acetate                    | 10              | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 50              | Not Detected |
| Chloroform                       | 5.0             | Not Detected |
| 1,1,1-Trichloroethane            | 5.0             | Not Detected |
| Carbon Tetrachloride             | 5.0             | Not Detected |
| Benzene                          | 5.0             | Not Detected |
| 1,2-Dichloroethane               | 5.0             | Not Detected |
| Trichloroethene                  | 5.0             | Not Detected |
| 1,2-Dichloropropane              | 5.0             | Not Detected |
| Bromodichloromethane             | 5.0             | Not Detected |
| trans-1,3-Dichloropropene        | 5.0             | Not Detected |
| 4-Methyl-2-pentanone             | 10              | Not Detected |
| Toluene                          | 5.0             | Not Detected |
| cis-1,3-Dichloropropene          | 5.0             | Not Detected |
| 1,1,2-Trichloroethane            | 5.0             | Not Detected |
| Tetrachloroethene                | 5.0             | Not Detected |
| 2-Hexanone                       | 10              | Not Detected |
| Dibromochloromethane             | 5.0             | Not Detected |
| Chlorobenzene                    | 5.0             | Not Detected |
| Ethyl Benzene                    | 5.0             | Not Detected |
| m,p-Xylene                       | 5.0             | Not Detected |
| o-Xylene                         | 5.0             | Not Detected |
| Styrene                          | 5.0             | Not Detected |
| Bromoform                        | 5.0             | Not Detected |
| 1,1,2,2-Tetrachloroethane        | 5.0             | Not Detected |
| cis-1,2-Dichloroethene           | 5.0             | Not Detected |

### TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported

| Compound                        | CAS Number | Match Quality | Amount (nG) |
|---------------------------------|------------|---------------|-------------|
| 1,2,4-Trioxolane, 3,5-diphenyl- | 23888-15-5 | Manual ID     | 28          |
| 1-Octanol                       | 111-87-5   | 80 %          | 33          |
| Ethanone, 1-phenyl-             | 98-86-2    | 94 %          | 43          |
| 1-Decene, 2,4-dimethyl-         | 55170-80-4 | Manual ID     | 51          |
| Unknown                         | NA         | NA            | 25          |
| Tetradecane                     | 629-59-4   | 94 %          | 31          |

# AIR TOXICS LTD.

SAMPLE NAME : 7204A,7204B

ID#: 9811212-05A/B

Modified VOST 5041A

|             |         |                    |          |
|-------------|---------|--------------------|----------|
| File Name   | 9811310 | Date of Collection | 11/11/98 |
| Dil. Factor | 1.0     | Date of Analysis   | 11/13/98 |

## TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported

| Compound    | CAS Number | Match Quality | Amount (ng) |
|-------------|------------|---------------|-------------|
| Heptadecane | 629-78-7   | 86 %          | 29          |

Container Type: VOST Tube

| Surrogates            | % Recovery | Method Limits |
|-----------------------|------------|---------------|
| 1,2-Dichloroethane-d4 | 89         | 69-112        |
| Toluene-d8            | 108        | 72-134        |
| 4-Bromofluorobenzene  | 101        | 78-119        |
| Dibromofluoromethane  | 97         | 70-130        |

# AIR TOXICS LTD.

SAMPLE NAME : 7218A,7218B

ID#: 9811212-06A/B

Modified VOST 5041A

|              |         |                     |          |
|--------------|---------|---------------------|----------|
| File Name:   | 9111311 | Date of Collection: | 11/11/98 |
| Dil. Factor: | 1.0     | Date of Analysis:   | 11/13/98 |

| Compound                         | Det. Limit (nG) | Amount (nG)  |
|----------------------------------|-----------------|--------------|
| Chloromethane                    | 10              | Not Detected |
| Vinyl Chloride                   | 5.0             | Not Detected |
| Bromomethane                     | 10              | Not Detected |
| Chloroethane                     | 5.0             | Not Detected |
| 1,1-Dichloroethene               | 5.0             | Not Detected |
| Carbon Disulfide                 | 5.0             | Not Detected |
| Acetone                          | 50              | 55           |
| Methylene Chloride               | 5.0             | Not Detected |
| trans-1,2-Dichloroethene         | 5.0             | Not Detected |
| 1,1-Dichloroethane               | 5.0             | Not Detected |
| Vinyl Acetate                    | 10              | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 50              | Not Detected |
| Chloroform                       | 5.0             | 13           |
| 1,1,1-Trichloroethane            | 5.0             | 12           |
| Carbon Tetrachloride             | 5.0             | 5.0          |
| Benzene                          | 5.0             | Not Detected |
| 1,2-Dichloroethane               | 5.0             | Not Detected |
| Trichloroethene                  | 5.0             | Not Detected |
| 1,2-Dichloropropane              | 5.0             | Not Detected |
| Bromodichloromethane             | 5.0             | Not Detected |
| trans-1,3-Dichloropropene        | 5.0             | Not Detected |
| 4-Methyl-2-pentanone             | 10              | Not Detected |
| Toluene                          | 5.0             | Not Detected |
| cis-1,3-Dichloropropene          | 5.0             | Not Detected |
| 1,1,2-Trichloroethane            | 5.0             | Not Detected |
| Tetrachloroethene                | 5.0             | 500          |
| 2-Hexanone                       | 10              | Not Detected |
| Dibromochloromethane             | 5.0             | Not Detected |
| Chlorobenzene                    | 5.0             | Not Detected |
| Ethyl Benzene                    | 5.0             | Not Detected |
| m,p-Xylene                       | 5.0             | Not Detected |
| o-Xylene                         | 5.0             | Not Detected |
| Styrene                          | 5.0             | Not Detected |
| Bromoform                        | 5.0             | Not Detected |
| 1,1,2,2-Tetrachloroethane        | 5.0             | Not Detected |
| cis-1,2-Dichloroethene           | 5.0             | Not Detected |

### TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported

| Compound                    | CAS Number | Match Quality | Amount (nG) |
|-----------------------------|------------|---------------|-------------|
| Methane, trichlorofluoro-   | 75-69-4    | 90 %          | 890         |
| Nonanal                     | 124-19-6   | 83 %          | 180         |
| Decanal                     | 112-31-2   | Manual ID     | 68          |
| 1,1-Dodecanediol, diacetate | 56438-07-4 | 91 %          | 26          |
| Tetradecane                 | 629-59-4   | 96 %          | 34          |

# AIR TOXICS LTD.

ID#: 9811212-06A/B

|              |         |                     |          |
|--------------|---------|---------------------|----------|
| File Name:   | 9111311 | Date of Collection: | 11/11/98 |
| Dil. Factor: | 1.0     | Date of Analysis:   | 11/13/98 |

Container Type: VOST Tube

| Surrogates            | % Recovery | Method Limits |
|-----------------------|------------|---------------|
| 1,2-Dichloroethane-d4 | 91         | 69-112        |
| Toluene-d8            | 84         | 72-134        |
| 4-Bromofluorobenzene  | 98         | 78-119        |
| Dibromofluoromethane  | 98         | 70-130        |

# AIR TOXICS LTD.

SAMPLE NAME : Lab Blank

ID#: 9811212-07A

Modified VOST 5041A

|              |         |                            |
|--------------|---------|----------------------------|
| File Name:   | 9111303 | Date of Collection: NA     |
| Dil. Factor: | 1.0     | Date of Analysis: 11/13/98 |

| Compound                         | Det. Limit (nG) | Amount (nG)  |
|----------------------------------|-----------------|--------------|
| Chloromethane                    | 10              | Not Detected |
| Vinyl Chloride                   | 5.0             | Not Detected |
| Bromomethane                     | 10              | Not Detected |
| Chloroethane                     | 5.0             | Not Detected |
| 1,1-Dichloroethene               | 5.0             | Not Detected |
| Carbon Disulfide                 | 5.0             | Not Detected |
| Acetone                          | 50              | Not Detected |
| Methylene Chloride               | 5.0             | Not Detected |
| trans-1,2-Dichloroethene         | 5.0             | Not Detected |
| 1,1-Dichloroethane               | 5.0             | Not Detected |
| Vinyl Acetate                    | 10              | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 50              | Not Detected |
| Chloroform                       | 5.0             | Not Detected |
| 1,1,1-Trichloroethane            | 5.0             | Not Detected |
| Carbon Tetrachloride             | 5.0             | Not Detected |
| Benzene                          | 5.0             | Not Detected |
| 1,2-Dichloroethane               | 5.0             | Not Detected |
| Trichloroethene                  | 5.0             | Not Detected |
| 1,2-Dichloropropane              | 5.0             | Not Detected |
| Bromodichloromethane             | 5.0             | Not Detected |
| trans-1,3-Dichloropropene        | 5.0             | Not Detected |
| 4-Methyl-2-pentanone             | 10              | Not Detected |
| Toluene                          | 5.0             | Not Detected |
| cis-1,3-Dichloropropene          | 5.0             | Not Detected |
| 1,1,2-Trichloroethane            | 5.0             | Not Detected |
| Tetrachloroethene                | 5.0             | Not Detected |
| 2-Hexanone                       | 10              | Not Detected |
| Dibromochloromethane             | 5.0             | Not Detected |
| Chlorobenzene                    | 5.0             | Not Detected |
| Ethyl Benzene                    | 5.0             | Not Detected |
| m,p-Xylene                       | 5.0             | Not Detected |
| o-Xylene                         | 5.0             | Not Detected |
| Styrene                          | 5.0             | Not Detected |
| Bromoform                        | 5.0             | Not Detected |
| 1,1,2,2-Tetrachloroethane        | 5.0             | Not Detected |
| cis-1,2-Dichloroethene           | 5.0             | Not Detected |

**TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported**

| Compound        | CAS Number | Match Quality | Amount (nG) |
|-----------------|------------|---------------|-------------|
| None Identified |            |               |             |
| None Identified |            |               |             |

Container Type: NA

# AIR TOXICS LTD.

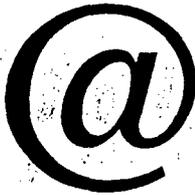
SAMPLE NAME : Lab Blank

ID#: 9811212-07A

Modified VOST 5041A

|             |         |                    |          |
|-------------|---------|--------------------|----------|
| File Name   | 9111303 | Date of Collection | NA       |
| Dil. Factor | 1.0     | Date of Analysis   | 11/13/98 |

| Surrogates            | % Recovery | Method Limits |
|-----------------------|------------|---------------|
| 1,2-Dichloroethane-d4 | 103        | 69-112        |
| Toluene-d8            | 100        | 72-134        |
| 4-Bromofluorobenzene  | 96         | 78-119        |
| Dibromofluoromethane  | 97         | 70-130        |



**AIR TOXICS LTD.**  
AN ENVIRONMENTAL ANALYTICAL LABORATORY

180 BLUE RAVINE ROAD, SUITE B  
FOLSOM, CA 95630-4719  
(916) 985-1000 FAX: (916) 985-1020

# CHAIN-OF-CUSTODY RECORD

No 017742

Page 1 of 1

|  |   |   |
|--|---|---|
| Contact Person <u>Richard Grabowski</u><br>Company <u>U.S. Army Corps of Engineers</u><br>Address <u>215N. 17th Street</u> City <u>Omaha</u> State <u>NE</u> Zip <u>68102</u><br>Phone <u>(402) 221-7784</u> FAX <u>(402) 221-7769</u><br>Collected By: Signature <u>Richard Grabowski</u> | Project info:<br>P.O. # _____<br>Project # _____<br>Project Name <u>Hinco Dump</u><br><u>Superfund Site</u> | Turn Around Time:<br><input checked="" type="checkbox"/> Normal<br><input type="checkbox"/> Rush _____<br>Specify _____ |
|--|---|---|

| Lab I.D.                 | Field Sample I.D.     | Date & Time          | Analyses Requested | Canister Pressure / Vacuum |            |         |
|--------------------------|-----------------------|----------------------|--------------------|----------------------------|------------|---------|
|                          |                       |                      |                    | Initial                    | Final      | Receipt |
| <u>017</u><br><u>01B</u> | <u>7210 A, 7210 B</u> | <u>11/11/98 1418</u> | <u>VOCs</u>        | <u>N/A</u>                 | <u>N/A</u> |         |
| <u>022</u><br><u>02B</u> | <u>7205 A, 7208 B</u> | <u>11/11/98 1602</u> | <u>VOCs</u>        | <u>N/A</u>                 | <u>N/A</u> |         |
| <u>032</u><br><u>03B</u> | <u>7212 A, 7212 B</u> | <u>11/11/98 0904</u> | <u>VOCs</u>        | <u>N/A</u>                 | <u>N/A</u> |         |
| <u>042</u><br><u>04B</u> | <u>7220 A, 7220 B</u> | <u>11/4/98 1056</u>  | <u>VOCs</u>        | <u>N/A</u>                 | <u>N/A</u> |         |
| <u>052</u><br><u>05B</u> | <u>7204 A, 7204 B</u> | <u>11/11/98 0700</u> | <u>VOCs</u>        | <u>N/A</u>                 | <u>N/A</u> |         |
| <u>062</u><br><u>06B</u> | <u>7218 A, 7218 B</u> | <u>4/11/98 1226</u>  | <u>VOCs</u>        | <u>N/A</u>                 | <u>N/A</u> |         |

|   |  |        |
|---|--|--------|
| Relinquished By: (Signature) <u>[Signature]</u> Date/Time <u>11/4/98 1930</u><br>Relinquished By: (Signature) Date/Time _____<br>Relinquished By: (Signature) Date/Time _____ | Print Name <u>RICHARD J GRABOWSKI</u><br>Received By: (Signature) <u>[Signature]</u> Date/Time <u>11/17/98 910</u> | Notes: |
|---|--|--------|

|              |                            |                                 |                      |                               |                          |                       |  |                             |
|--------------|----------------------------|---------------------------------|----------------------|-------------------------------|--------------------------|-----------------------|--|-----------------------------|
| Lab Use Only | Shipper Name <u>FEA-EX</u> | Air Bill # <u>7809286252001</u> | Opened By: <u>TS</u> | Date/Time <u>11/17/98 910</u> | Temp. (°C) <u>On ice</u> | Condition <u>Good</u> | Custody Seals Intact? <u>(Yes)</u> No None N/A | Work Order # <u>9811212</u> |
|--------------|----------------------------|---------------------------------|----------------------|-------------------------------|--------------------------|-----------------------|--|-----------------------------|

# @AIR TOXICS LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

## WORK ORDER #: 9811253

### Work Order Summary

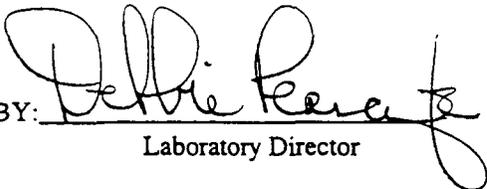
**CLIENT:** Mr. Steve Peterson  
U.S. Army Corps of Engineers  
215 N. 17th Street, Zorinsky Bldg.  
Omaha, NE 68102-4978

**BILL TO:** Same

**PHONE:** 402-221-7183  
**FAX:** 402-221-7769  
**DATE RECEIVED:** 11/13/98  
**DATE COMPLETED:** 12/2/98

**P.O. #** NR  
**PROJECT #** DACW45-99-P-0094 Himco Dump

| <u>FRACTION #</u> | <u>NAME</u> | <u>TEST</u>            |
|-------------------|-------------|------------------------|
| 01A/B             | 7101A&B     | VOST 5041A/8260B/TIC's |
| 02A/B             | 7125A&B     | VOST 5041A/8260B/TIC's |
| 03A/B             | 7211A&B     | VOST 5041A/8260B/TIC's |
| 04A/B             | 7121A&B     | VOST 5041A/8260B/TIC's |
| 05A/B             | 7112A&B     | VOST 5041A/8260B/TIC's |
| 06A               | Lab Blank   | VOST 5041A/8260B/TIC's |
| 06B               | Lab Blank   | VOST 5041A/8260B/TIC's |

**CERTIFIED BY:**   
Laboratory Director

**DATE:** 12/4/98

Certification numbers: CA ELAP - 1149, NY ELAP - 11291, UT ELAP - E-217

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA 95630  
(916) 985-1000 • (800) 985-5955 • FAX (916) 985-1020

**LABORATORY NARRATIVE**  
**Analysis of Volatile Organic Compounds in VOST Cartridges**  
**by EPA 5041A/8260B**  
**U.S. Army Corps of Engineers**  
**Work Order #9811253**

Five Tenax and Tenax/charcoal tube pairs (VOST cartridges) were received on November 13, 1998. The sacrificial temperature check vial was not provided with the shipment, therefore the actual temperature of the shipment was not recorded. The samples were received on ice and therefore their integrity is not in question. The laboratory performed the analysis via EPA SW-846 Method 5041A using GC/MS in the full scan mode. The method involves thermal desorption of the VOST cartridges for 11 min. at 180° C using an inert gas. The gas stream is then bubbled through 5 mL of organic free water and trapped on the sorbent trap of the purge and trap system. The trap is thermally desorbed to elute the components into the GC system for further separation. See the data sheets for the reporting limits for each compound.

Bag dilutions were performed on all the samples due to uncertainty of analyte concentrations.

Sample 7121A&B is reported for less compounds than the required target list due to a system malfunction aborting the sample run after only 16 minutes.

The daily calibration check analyzed on November 22, 1998 was slightly out of the CCC criteria for 1,1-dichloroethene; analysis proceeded since bag dilution hold times were approaching expiration. A new ICAL was performed before any further sample analysis.

There were no other out of the ordinary circumstances to report.

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:

- B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
- J - Estimated Value.
- E - Exceeds instrument calibration range.
- S - Saturated Peak.
- Q - Exceeds quality control limits.
- U - Compound analyzed for but not detected above the detection limit.
- N - The identification is based on presumptive evidence.

# AIR TOXICS LTD.

SAMPLE NAME : 7101A&B

ID#: 9811253-01A/B

Modified VOST 5041A

|              |         |                              |
|--------------|---------|------------------------------|
| File Name:   | 9112205 | Date of Collection: 11/12/98 |
| Dil. Factor: | 1.7     | Date of Analysis: 11/22/98   |

| Compound                         | Det. Limit (nG) | Amount (nG)  |
|----------------------------------|-----------------|--------------|
| Chloromethane                    | 17              | Not Detected |
| Vinyl Chloride                   | 8.5             | Not Detected |
| Bromomethane                     | 17              | Not Detected |
| Chloroethane                     | 8.5             | Not Detected |
| 1,1-Dichloroethene               | 8.5             | Not Detected |
| Carbon Disulfide                 | 8.5             | 16           |
| Acetone                          | 85              | Not Detected |
| Methylene Chloride               | 8.5             | Not Detected |
| trans-1,2-Dichloroethene         | 8.5             | Not Detected |
| 1,1-Dichloroethane               | 8.5             | Not Detected |
| Vinyl Acetate                    | 17              | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 85              | Not Detected |
| Chloroform                       | 8.5             | Not Detected |
| 1,1,1-Trichloroethane            | 8.5             | Not Detected |
| Carbon Tetrachloride             | 8.5             | Not Detected |
| Benzene                          | 8.5             | 43           |
| 1,2-Dichloroethane               | 8.5             | Not Detected |
| Trichloroethene                  | 8.5             | Not Detected |
| 1,2-Dichloropropane              | 8.5             | Not Detected |
| Bromodichloromethane             | 8.5             | Not Detected |
| trans-1,3-Dichloropropene        | 8.5             | Not Detected |
| 4-Methyl-2-pentanone             | 17              | Not Detected |
| Toluene                          | 8.5             | Not Detected |
| cis-1,3-Dichloropropene          | 8.5             | Not Detected |
| 1,1,2-Trichloroethane            | 8.5             | Not Detected |
| Tetrachloroethene                | 8.5             | Not Detected |
| 2-Hexanone                       | 17              | Not Detected |
| Dibromochloromethane             | 8.5             | Not Detected |
| Chlorobenzene                    | 8.5             | Not Detected |
| Ethyl Benzene                    | 8.5             | Not Detected |
| m,p-Xylene                       | 8.5             | Not Detected |
| o-Xylene                         | 8.5             | Not Detected |
| Styrene                          | 8.5             | Not Detected |
| Bromoform                        | 8.5             | Not Detected |
| 1,1,2,2-Tetrachloroethane        | 8.5             | Not Detected |
| cis-1,2-Dichloroethene           | 8.5             | Not Detected |

### TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported

| Compound        | CAS Number | Match Quality | Amount (nG) |
|-----------------|------------|---------------|-------------|
| None Identified |            |               |             |
| None Identified |            |               |             |

Container Type: VOST Tube

# AIR TOXICS LTD.

SAMPLE NAME : 7101A&B

ID#: 9811253-01A/B

Modified VOST 5041A

|              |         |                     |          |
|--------------|---------|---------------------|----------|
| File Name:   | 9112205 | Date of Collection: | 11/12/98 |
| Dil. Factor: | 1.7     | Date of Analysis:   | 11/22/98 |

| Surrogates            | % Recovery | Method Limits |
|-----------------------|------------|---------------|
| 1,2-Dichloroethane-d4 | 99         | 69-112        |
| Toluene-d8            | 96         | 72-134        |
| 4-Bromofluorobenzene  | 94         | 78-119        |
| Dibromofluoromethane  | 97         | 70-130        |
| Benzene-d6            | 82         | 70-130        |

# AIR TOXICS LTD.

SAMPLE NAME : 7125A&B

ID#: 9811253-02A/B

Modified VOST 5041A

|              |         |                     |          |
|--------------|---------|---------------------|----------|
| File Name:   | 9112119 | Date of Collection: | 11/12/98 |
| Dif. Factor: | 330     | Date of Analysis:   | 11/21/98 |

| Compound                         | Det. Limit (nG) | Amount (nG)  |
|----------------------------------|-----------------|--------------|
| Chloromethane                    | 3300            | Not Detected |
| Vinyl Chloride                   | 1700            | 390000 E     |
| Bromomethane                     | 3300            | Not Detected |
| Chloroethane                     | 1700            | Not Detected |
| 1,1-Dichloroethene               | 1700            | 2900         |
| Carbon Disulfide                 | 1700            | 60000        |
| Acetone                          | 17000           | Not Detected |
| Methylene Chloride               | 1700            | 17000        |
| trans-1,2-Dichloroethene         | 1700            | Not Detected |
| 1,1-Dichloroethane               | 1700            | Not Detected |
| Vinyl Acetate                    | 3300            | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 17000           | Not Detected |
| Chloroform                       | 1700            | Not Detected |
| 1,1,1-Trichloroethane            | 1700            | Not Detected |
| Carbon Tetrachloride             | 1700            | Not Detected |
| Benzene                          | 1700            | Not Detected |
| 1,2-Dichloroethane               | 1700            | Not Detected |
| Trichloroethene                  | 1700            | Not Detected |
| 1,2-Dichloropropane              | 1700            | Not Detected |
| Bromodichloromethane             | 1700            | Not Detected |
| trans-1,3-Dichloropropene        | 1700            | Not Detected |
| 4-Methyl-2-pentanone             | 3300            | Not Detected |
| Toluene                          | 1700            | Not Detected |
| cis-1,3-Dichloropropene          | 1700            | Not Detected |
| 1,1,2-Trichloroethane            | 1700            | Not Detected |
| Tetrachloroethene                | 1700            | Not Detected |
| 2-Hexanone                       | 3300            | Not Detected |
| Dibromochloromethane             | 1700            | Not Detected |
| Chlorobenzene                    | 1700            | Not Detected |
| Ethyl Benzene                    | 1700            | 3200         |
| m,p-Xylene                       | 1700            | 2000         |
| o-Xylene                         | 1700            | Not Detected |
| Styrene                          | 1700            | Not Detected |
| Bromoform                        | 1700            | Not Detected |
| 1,1,2,2-Tetrachloroethane        | 1700            | Not Detected |
| cis-1,2-Dichloroethene           | 1700            | 12000        |

### TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported

| Compound                                 | CAS Number | Match Quality | Amount (nG) |
|--|------------|---------------|-------------|
| Ethane, 1,2-dichloro-1,1,2,2-tetrafluoro | 76-14-2    | 90 %          | 1000000     |
| Methane, dichlorofluoro-                 | 75-43-4    | 70 %          | 65000       |
| Disulfide, dimethyl                      | 624-92-0   | 95 %          | 120000      |
| 1-Hexanol, 2-ethyl-                      | 104-76-7   | Manual ID     | 12000       |
| Undecane                                 | 1120-21-4  | 90 %          | 9600        |
| Decanedioic acid, didecyl ester          | 2432-89-5  | Manual ID     | 14000       |

# AIR TOXICS LTD.

SAMPLE NAME : 7125A&B

ID#: 9811253-02A/B

Modified VOST 5041A

|              |         |                     |          |
|--------------|---------|---------------------|----------|
| File Name:   | 9112119 | Date of Collection: | 11/12/98 |
| Dil. Factor: | 330     | Date of Analysis:   | 11/21/98 |

## TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported

| Compound                 | CAS Number | Match Quality | Amount (ng) |
|--------------------------|------------|---------------|-------------|
| Decane, 2,5,6-trimethyl- | 62108-23-0 | Manual ID     | 25000       |
| Unknown                  | NA         | NA            | 18000       |
| Nonane, 2,6-dimethyl-    | 17302-28-2 | Manual ID     | 14000       |

E = Exceeds instrument calibration range.

Container Type: VOST Tube

| Surrogates            | % Recovery | Method Limits |
|-----------------------|------------|---------------|
| 1,2-Dichloroethane-d4 | 96         | 69-112        |
| Toluene-d8            | 96         | 72-134        |
| 4-Bromofluorobenzene  | 93         | 78-119        |
| Dibromofluoromethane  | 96         | 70-130        |

# AIR TOXICS LTD.

SAMPLE NAME : 7211A&B

ID#: 9811253-03A/B

Modified VOST 5041A

|              |         |                     |          |
|--------------|---------|---------------------|----------|
| File Name:   | 9112118 | Date of Collection: | 11/12/98 |
| Dil. Factor: | 130     | Date of Analysis:   | 11/21/98 |

| Compound                         | Det. Limit (nG) | Amount (nG)  |
|----------------------------------|-----------------|--------------|
| Chloromethane                    | 1300            | Not Detected |
| Vinyl Chloride                   | 650             | 3800         |
| Bromomethane                     | 1300            | Not Detected |
| Chloroethane                     | 650             | Not Detected |
| 1,1-Dichloroethene               | 650             | 1500         |
| Carbon Disulfide                 | 650             | 20000        |
| Acetone                          | 6500            | Not Detected |
| Methylene Chloride               | 650             | Not Detected |
| trans-1,2-Dichloroethene         | 650             | Not Detected |
| 1,1-Dichloroethane               | 650             | Not Detected |
| Vinyl Acetate                    | 1300            | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 6500            | Not Detected |
| Chloroform                       | 650             | Not Detected |
| 1,1,1-Trichloroethane            | 650             | Not Detected |
| Carbon Tetrachloride             | 650             | Not Detected |
| Benzene                          | 650             | 4300         |
| 1,2-Dichloroethane               | 650             | Not Detected |
| Trichloroethene                  | 650             | 7400         |
| 1,2-Dichloropropane              | 650             | Not Detected |
| Bromodichloromethane             | 650             | Not Detected |
| trans-1,3-Dichloropropene        | 650             | Not Detected |
| 4-Methyl-2-pentanone             | 1300            | Not Detected |
| Toluene                          | 650             | 5200         |
| cis-1,3-Dichloropropene          | 650             | Not Detected |
| 1,1,2-Trichloroethane            | 650             | Not Detected |
| Tetrachloroethene                | 650             | 10000        |
| 2-Hexanone                       | 1300            | Not Detected |
| Dibromochloromethane             | 650             | Not Detected |
| Chlorobenzene                    | 650             | 1100         |
| Ethyl Benzene                    | 650             | 69000        |
| m,p-Xylene                       | 650             | 37000        |
| o-Xylene                         | 650             | 13000        |
| Styrene                          | 650             | Not Detected |
| Bromoform                        | 650             | Not Detected |
| 1,1,2,2-Tetrachloroethane        | 650             | Not Detected |
| cis-1,2-Dichloroethene           | 650             | 1400         |

### TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported

| Compound                                 | CAS Number | Match Quality | Amount (nG) |
|--|------------|---------------|-------------|
| Methane, dichlorodifluoro-               | 75-71-8    | Manual ID     | 33000       |
| Ethane, 1,2-dichloro-1,1,2,2-tetrafluoro | 76-14-2    | 72 %          | 200000      |
| Heptane, 2-methyl-                       | 592-27-8   | 83 %          | 29000       |
| Hexane, 3-ethyl-                         | 619-99-8   | 72 %          | 35000       |
| Octane                                   | 111-65-9   | 90 %          | 29000       |
| Cyclopentane, 1-ethyl-3-methyl-          | 3726-47-4  | Manual ID     | 40000       |

# AIR TOXICS LTD.

SAMPLE NAME : 7211A&B

ID#: 9811253-03A/B

Modified VOST 5041A

|              |         |                     |          |
|--------------|---------|---------------------|----------|
| File Name:   | 9112118 | Date of Collection: | 11/12/98 |
| Dil. Factor: | 130     | Date of Analysis:   | 11/21/98 |

| TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported |            |               |             |
|--|------------|---------------|-------------|
| Compound   | CAS Number | Match Quality | Amount (nG) |
| Octane, 2,5,6-trimethyl-                           | 62016-14-2 | Manual ID     | 76000       |
| Benzene, 1-ethyl-2-methyl-                         | 611-14-3   | 94 %          | 24000       |
| Decane   | 124-18-5   | 87 %          | 39000       |
| Decane, 2,6,7-trimethyl-                           | 62108-25-2 | Manual ID     | 27000       |

Container Type: VOST Tube

| Surrogates            | % Recovery | Method Limits |
|-----------------------|------------|---------------|
| 1,2-Dichloroethane-d4 | 92         | 69-112        |
| Toluene-d8            | 97         | 72-134        |
| 4-Bromofluorobenzene  | 103        | 78-119        |
| Dibromofluoromethane  | 96         | 70-130        |
| Benzene-d6            | 89         | 70-130        |

# AIR TOXICS LTD.

SAMPLE NAME : 7121A&B

ID#: 9811253-04A/B

Modified VOST 5041A

|              |         |                     |          |
|--------------|---------|---------------------|----------|
| File Name:   | 9112120 | Date of Collection: | 11/12/98 |
| Dil. Factor: | 34      | Date of Analysis:   | 11/21/98 |

| Compound                         | Det. Limit (nG) | Amount (nG)  |
|----------------------------------|-----------------|--------------|
| Chloromethane                    | 340             | Not Detected |
| Vinyl Chloride                   | 170             | 430          |
| Bromomethane                     | 340             | Not Detected |
| Chloroethane                     | 170             | Not Detected |
| 1,1-Dichloroethene               | 170             | Not Detected |
| Carbon Disulfide                 | 170             | 400          |
| Acetone                          | 1700            | Not Detected |
| Methylene Chloride               | 170             | Not Detected |
| trans-1,2-Dichloroethene         | 170             | Not Detected |
| 1,1-Dichloroethane               | 170             | 1200         |
| Vinyl Acetate                    | 340             | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 1700            | Not Detected |
| Chloroform                       | 170             | Not Detected |
| 1,1,1-Trichloroethane            | 170             | 850          |
| Carbon Tetrachloride             | 170             | Not Detected |
| Benzene                          | 170             | 790          |
| 1,2-Dichloroethane               | 170             | Not Detected |
| Trichloroethene                  | 170             | 200          |
| 1,2-Dichloropropane              | 170             | 290          |
| Bromodichloromethane             | 170             | Not Detected |
| trans-1,3-Dichloropropene        | 170             | Not Detected |
| 4-Methyl-2-pentanone             | 340             | Not Detected |
| Toluene                          | 170             | 740          |
| cis-1,3-Dichloropropene          | 170             | Not Detected |
| cis-1,2-Dichloroethene           | 170             | Not Detected |

## TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported

| Compound                   | CAS Number | Match Quality | Amount (nG) |
|----------------------------|------------|---------------|-------------|
| Methane, dichlorodifluoro- | 75-71-8    | 91 %          | 180000      |
| Methane, trichlorofluoro-  | 75-69-4    | 83 %          | 650         |
| Unknown                    | NA         | NA            | 2800        |

Container Type: VOST Tube

| Surrogates            | % Recovery | Method Limits |
|-----------------------|------------|---------------|
| 1,2-Dichloroethane-d4 | 91         | 69-112        |
| Toluene-d8            | 98         | 72-134        |
| Dibromofluoromethane  | 100        | 70-130        |
| Benzene-d6            | 76         | 70-130        |

# AIR TOXICS LTD.

SAMPLE NAME : 7112A&B

ID#: 9811253-05A/B

Modified VOST 5041A

|              |         |                     |          |
|--------------|---------|---------------------|----------|
| File Name:   | 9112211 | Date of Collection: | 11/12/98 |
| Dil. Factor: | 2.0     | Date of Analysis:   | 11/22/98 |

| Compound                         | Det. Limit (nG) | Amount (nG)  |
|----------------------------------|-----------------|--------------|
| Chloromethane                    | 20              | Not Detected |
| Vinyl Chloride                   | 10              | Not Detected |
| Bromomethane                     | 20              | Not Detected |
| Chloroethane                     | 10              | Not Detected |
| 1,1-Dichloroethene               | 10              | Not Detected |
| Carbon Disulfide                 | 10              | 59           |
| Acetone                          | 100             | Not Detected |
| Methylene Chloride               | 10              | Not Detected |
| trans-1,2-Dichloroethene         | 10              | Not Detected |
| 1,1-Dichloroethane               | 10              | Not Detected |
| Vinyl Acetate                    | 20              | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 100             | Not Detected |
| Chloroform                       | 10              | Not Detected |
| 1,1,1-Trichloroethane            | 10              | Not Detected |
| Carbon Tetrachloride             | 10              | Not Detected |
| Benzene                          | 10              | 44           |
| 1,2-Dichloroethane               | 10              | Not Detected |
| Trichloroethene                  | 10              | Not Detected |
| 1,2-Dichloropropane              | 10              | Not Detected |
| Bromodichloromethane             | 10              | Not Detected |
| trans-1,3-Dichloropropene        | 10              | Not Detected |
| 4-Methyl-2-pentanone             | 20              | Not Detected |
| Toluene                          | 10              | 19           |
| cis-1,3-Dichloropropene          | 10              | Not Detected |
| 1,1,2-Trichloroethane            | 10              | Not Detected |
| Tetrachloroethene                | 10              | Not Detected |
| 2-Hexanone                       | 20              | Not Detected |
| Dibromochloromethane             | 10              | Not Detected |
| Chlorobenzene                    | 10              | Not Detected |
| Ethyl Benzene                    | 10              | 23           |
| m,p-Xylene                       | 10              | 30           |
| o-Xylene                         | 10              | 11           |
| Styrene                          | 10              | Not Detected |
| Bromoform                        | 10              | Not Detected |
| 1,1,2,2-Tetrachloroethane        | 10              | Not Detected |
| cis-1,2-Dichloroethene           | 10              | Not Detected |

### TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported

| Compound           | CAS Number | Match Quality | Amount (nG) |
|--------------------|------------|---------------|-------------|
| Propane, 2-methyl- | 75-28-5    | Manual ID     | 310         |
| Butane             | 106-97-8   | Manual ID     | 350         |
| Butane, 2-methyl-  | 78-78-4    | Manual ID     | 67          |
| Pentane            | 109-66-0   | Manual ID     | 65          |
| .alpha.-Pinene     | 80-56-8    | 96 %          | 53          |
| Unknown            | NA         | NA            | 85          |

# AIR TOXICS LTD.

SAMPLE NAME : 7112A&B

ID#: 9811253-05A/B

Modified VOST 5041A

|              |         |                     |          |
|--------------|---------|---------------------|----------|
| File Name:   | 9112211 | Date of Collection: | 11/12/98 |
| Dil. Factor: | 20      | Date of Analysis:   | 11/22/98 |

## TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported

| Compound | CAS Number | Match Quality | Amount (nG) |
|----------|------------|---------------|-------------|
|----------|------------|---------------|-------------|

Container Type: VOST Tube

| Surrogates            | % Recovery | Method Limits |
|-----------------------|------------|---------------|
| 1,2-Dichloroethane-d4 | 93         | 69-112        |
| Toluene-d8            | 100        | 72-134        |
| 4-Bromofluorobenzene  | 98         | 78-119        |
| Dibromofluoromethane  | 104        | 70-130        |
| Benzene-d6            | 76         | 70-130        |

# AIR TOXICS LTD.

SAMPLE NAME : Lab Blank

ID#: 9811253-06A

Modified VOST 5041A

|              |         |                     |          |
|--------------|---------|---------------------|----------|
| File Name:   | ST12177 | Date of Collection: | NA       |
| Dil. Factor: | 1.0     | Date of Analysis:   | 11/21/98 |

| Compound                         | Det. Limit (nG) | Amount (nG)  |
|----------------------------------|-----------------|--------------|
| Chloromethane                    | 10              | Not Detected |
| Vinyl Chloride                   | 5.0             | Not Detected |
| Bromomethane                     | 10              | Not Detected |
| Chloroethane                     | 5.0             | Not Detected |
| 1,1-Dichloroethene               | 5.0             | Not Detected |
| Carbon Disulfide                 | 5.0             | Not Detected |
| Acetone                          | 50              | Not Detected |
| Methylene Chloride               | 5.0             | Not Detected |
| trans-1,2-Dichloroethene         | 5.0             | Not Detected |
| 1,1-Dichloroethane               | 5.0             | Not Detected |
| Vinyl Acetate                    | 10              | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 50              | Not Detected |
| Chloroform                       | 5.0             | Not Detected |
| 1,1,1-Trichloroethane            | 5.0             | Not Detected |
| Carbon Tetrachloride             | 5.0             | Not Detected |
| Benzene                          | 5.0             | Not Detected |
| 1,2-Dichloroethane               | 5.0             | Not Detected |
| Trichloroethene                  | 5.0             | Not Detected |
| 1,2-Dichloropropane              | 5.0             | Not Detected |
| Bromodichloromethane             | 5.0             | Not Detected |
| trans-1,3-Dichloropropene        | 5.0             | Not Detected |
| 4-Methyl-2-pentanone             | 10              | Not Detected |
| Toluene                          | 5.0             | Not Detected |
| cis-1,3-Dichloropropene          | 5.0             | Not Detected |
| 1,1,2-Trichloroethane            | 5.0             | Not Detected |
| Tetrachloroethene                | 5.0             | Not Detected |
| 2-Hexanone                       | 10              | Not Detected |
| Dibromochloromethane             | 5.0             | Not Detected |
| Chlorobenzene                    | 5.0             | Not Detected |
| Ethyl Benzene                    | 5.0             | Not Detected |
| m,p-Xylene                       | 5.0             | Not Detected |
| o-Xylene                         | 5.0             | Not Detected |
| Styrene                          | 5.0             | Not Detected |
| Bromoform                        | 5.0             | Not Detected |
| 1,1,2,2-Tetrachloroethane        | 5.0             | Not Detected |
| cis-1,2-Dichloroethene           | 5.0             | Not Detected |

### TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported

| Compound        | CAS Number | Match Quality | Amount (nG) |
|-----------------|------------|---------------|-------------|
| None Identified |            |               |             |
| None Identified |            |               |             |

Container Type: NA

# AIR TOXICS LTD.

SAMPLE NAME : Lab Blank

ID#: 9811253-06A

Modified VOST 5041A

|             |         |                     |          |
|-------------|---------|---------------------|----------|
| File Name:  | 9112117 | Date of Collection: | NA       |
| DIF Factor: | 1.0     | Date of Analysis:   | 11/21/98 |

| Surrogates            | % Recovery | Method Limits |
|-----------------------|------------|---------------|
| 1,2-Dichloroethane-d4 | 104        | 69-112        |
| Toluene-d8            | 94         | 72-134        |
| 4-Bromofluorobenzene  | 94         | 78-119        |
| Dibromofluoromethane  | 99         | 70-130        |

# AIR TOXICS LTD.

SAMPLE NAME : Lab Blank

ID#: 9811253-06B

Modified VOST 5041A

|              |         |                            |
|--------------|---------|----------------------------|
| File Name:   | 9112204 | Date of Collection: NA     |
| Dil. Factor: | 1.0     | Date of Analysis: 11/22/98 |

| Compound                         | Det. Limit (nG) | Amount (nG)  |
|----------------------------------|-----------------|--------------|
| Chloromethane                    | 10              | Not Detected |
| Vinyl Chloride                   | 5.0             | Not Detected |
| Bromomethane                     | 10              | Not Detected |
| Chloroethane                     | 5.0             | Not Detected |
| 1,1-Dichloroethene               | 5.0             | Not Detected |
| Carbon Disulfide                 | 5.0             | Not Detected |
| Acetone                          | 50              | Not Detected |
| Methylene Chloride               | 5.0             | Not Detected |
| trans-1,2-Dichloroethene         | 5.0             | Not Detected |
| 1,1-Dichloroethane               | 5.0             | Not Detected |
| Vinyl Acetate                    | 10              | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 50              | Not Detected |
| Chloroform                       | 5.0             | Not Detected |
| 1,1,1-Trichloroethane            | 5.0             | Not Detected |
| Carbon Tetrachloride             | 5.0             | Not Detected |
| Benzene                          | 5.0             | Not Detected |
| 1,2-Dichloroethane               | 5.0             | Not Detected |
| Trichloroethene                  | 5.0             | Not Detected |
| 1,2-Dichloropropane              | 5.0             | Not Detected |
| Bromodichloromethane             | 5.0             | Not Detected |
| trans-1,3-Dichloropropene        | 5.0             | Not Detected |
| 4-Methyl-2-pentanone             | 10              | Not Detected |
| Toluene                          | 5.0             | Not Detected |
| cis-1,3-Dichloropropene          | 5.0             | Not Detected |
| 1,1,2-Trichloroethane            | 5.0             | Not Detected |
| Tetrachloroethene                | 5.0             | Not Detected |
| 2-Hexanone                       | 10              | Not Detected |
| Dibromochloromethane             | 5.0             | Not Detected |
| Chlorobenzene                    | 5.0             | Not Detected |
| Ethyl Benzene                    | 5.0             | Not Detected |
| m,p-Xylene                       | 5.0             | Not Detected |
| o-Xylene                         | 5.0             | Not Detected |
| Styrene                          | 5.0             | Not Detected |
| Bromoform                        | 5.0             | Not Detected |
| 1,1,2,2-Tetrachloroethane        | 5.0             | Not Detected |
| cis-1,2-Dichloroethene           | 5.0             | Not Detected |

### TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported

| Compound        | CAS Number | Match Quality | Amount (nG) |
|-----------------|------------|---------------|-------------|
| None Identified |            |               |             |
| None Identified |            |               |             |

Container Type: NA

# AIR TOXICS LTD.

SAMPLE NAME : Lab Blank

ID#: 9811253-06B

Modified VOST 5041A

|              |         |                     |          |
|--------------|---------|---------------------|----------|
| File Name:   | 9112204 | Date of Collection: | NA       |
| Dil. Factor: | 1.0     | Date of Analysis:   | 11/22/98 |

| Surrogates            | % Recovery | Method Limits |
|-----------------------|------------|---------------|
| 1,2-Dichloroethane-d4 | 100        | 69-112        |
| Toluene-d8            | 95         | 72-134        |
| 4-Bromofluorobenzene  | 93         | 78-119        |
| Dibromofluoromethane  | 115        | 70-130        |



# AIR TOXICS LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

180 BLUE RAVINE ROAD, SUITE B  
FOLSOM, CA 95630-4719  
(916) 985-1000 FAX: (916) 985-1020

## CHAIN-OF-CUSTODY RECORD

No 017740

Page 1 of 1

|  |   |   |
|--|---|---|
| Contact Person <u>Richard Grabowski</u><br>Company <u>US Army Corps of Engineers</u><br>Address <u>215 N. 17th St.</u> City <u>Omaha</u> State <u>NE</u> Zip <u>68102</u><br>Phone <u>(402) 221-7784</u> FAX <u>(402) 221-7769</u><br>Collected By: Signature <u>Richard Grabowski</u> | Project info:<br>P.O. # <u>NR</u><br>Project # <u>DACU45-97-P-0094</u><br>Project Name <u>Himco Dump Superfund Site</u> | Turn Around Time:<br><input checked="" type="checkbox"/> Normal<br><input type="checkbox"/> Rush _____<br>Specify _____ |
|--|---|---|

| Lab I.D. | Field Sample I.D. | Date & Time   | Analyses Requested     | Canister Pressure / Vacuum |       |         |
|----------|-------------------|---------------|------------------------|----------------------------|-------|---------|
|          |                   |               |                        | Initial                    | Final | Receipt |
| 01A/B    | 7217 AEB          | 11/13/98 0700 | UOST S041A/8260 B/TICS | N/A                        | N/A   |         |
| 02A/B    | 7102 AEB          | 11/13/98 0934 | UOST S041A/8260 B/TICS | N/A                        | N/A   |         |
| 03A/B    | 7206 AEB          | 11/13/98 0953 | UOST S041A/8260 B/TICS | N/A                        | N/A   |         |
| 04A/B    | 7209 AEB          | 11/13/98 1106 | UOST S041A/8260 B/TICS | N/A                        | N/A   |         |
| 05A/B    | 7107 AEB          | 11/13/98 1214 | UOST S041A/8260 B/TICS | N/A                        | N/A   |         |
| 06A/B    | 7120 AEB          | 11/13/98 1234 | UOST S041A/8260 B/TICS | N/A                        | N/A   |         |
| 07A/B    | 7219 AEB          | 11/13/98 1309 | UOST S041A/8260 B/TICS | N/A                        | N/A   |         |
| 08A/B    | 7124 AEB          | 11/13/98 1416 | UOST S041A/8260 B/TICS | N/A                        | N/A   |         |

|  |   |
|--|---|
| Relinquished By: (Signature) <u>Richard Grabowski</u> Date/Time <u>11/13/98 1800</u> | Print Name <u>RICHARD J. GRABOWSKI</u>  |
| Relinquished By: (Signature) _____ Date/Time _____                                   | Received By: (Signature) _____ Date/Time _____                                      |
| Relinquished By: (Signature) _____ Date/Time _____                                   | Received By: (Signature) <u>Shirley Stripeke ARZ</u> Date/Time <u>11/14/98 1045</u> |

Notes: \_\_\_\_\_

|              |                            |                                |                      |  |                      |                       |  |                             |
|--------------|----------------------------|--------------------------------|----------------------|--|----------------------|-----------------------|--|-----------------------------|
| Lab Use Only | Shipper Name <u>Fed-Ex</u> | Air Bill # <u>809286251990</u> | Opened By: <u>TS</u> | Date/Time <u>11/13/98 1045 Ambient</u> | Temp. (°C) <u>60</u> | Condition <u>Good</u> | Custody Seals Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> None <input type="checkbox"/> N/A | Work Order # <u>9811263</u> |
|--------------|----------------------------|--------------------------------|----------------------|--|----------------------|-----------------------|--|-----------------------------|

# @AIR TOXICS LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

## WORK ORDER #: 9811263

### Work Order Summary

CLIENT: Mr. Steve Peterson  
U.S. Army Corps of Engineers  
215 N. 17th Street, Zorinsky Bldg.  
Omaha, NE 68102-4978

BILL TO: Same

PHONE: 402-221-7183  
FAX: 402-221-7769  
DATE RECEIVED: 11/14/98  
DATE COMPLETED: 12/4/98

P.O. # NR  
PROJECT # DACW45-99-P-0094 Himco Dump

| <u>FRACTION #</u> | <u>NAME</u> | <u>TEST</u>            |
|-------------------|-------------|------------------------|
| 01A/B             | 7217A&B     | VOST 5041A/8260B/TIC's |
| 02A/B             | 7102A&B     | VOST 5041A/8260B/TIC's |
| 03A/B             | 7206A&B     | VOST 5041A/8260B/TIC's |
| 04A/B             | 7209A&B     | VOST 5041A/8260B/TIC's |
| 05A/B             | 7107A&B     | VOST 5041A/8260B/TIC's |
| 06A/B             | 7120A&B     | VOST 5041A/8260B/TIC's |
| 07A/B             | 7219A&B     | VOST 5041A/8260B/TIC's |
| 08A/B             | 7124A&B     | VOST 5041A/8260B/TIC's |
| 09A               | Lab Blank   | VOST 5041A/8260B/TIC's |
| 09B               | Lab Blank   | VOST 5041A/8260B/TIC's |

CERTIFIED BY:

  
Laboratory Director

DATE:

12/4/98

Certification numbers: CA ELAP - 1149, NY ELAP - 11291, UT ELAP - E-217

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA 95630  
(916) 985-1000 • (800) 985-5955 • FAX (916) 985-1020

**LABORATORY NARRATIVE**  
**Analysis of Volatile Organic Compounds in VOST Cartridges**  
**by EPA 5041A/8260B**  
**U.S. Army Corps of Engineers**  
**Work Order #9811263**

Eight Tenax and Tenax/charcoal tube pairs (VOST cartridges) were received on November 14, 1998. The sacrificial temperature check vial was not provided with the shipment, therefore the actual temperature of the shipment was not recorded. The samples were received on ice and therefore their integrity is not in question. The laboratory performed the analysis via EPA SW-846 Method 5041A using GC/MS in the full scan mode. The method involves thermal desorption of the VOST cartridges for 11 min. at 180° C using an inert gas. The gas stream is then bubbled through 5 mL of organic free water and trapped on the sorbent trap of the purge and trap system. The trap is thermally desorbed to elute the components into the GC system for further separation. See the data sheets for the reporting limits for each compound.

Samples 7217A&B and 7102A&B were analyzed directly as tube samples. Sample 7102A&B was heavily loaded with target analytes as well as nontarget analytes. Data is "E" and "S" flagged. Bag dilutions were performed on other six samples.

There were no other out of the ordinary circumstances to report.

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:

- B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
- J - Estimated Value.
- E - Exceeds instrument calibration range.
- S - Saturated Peak.
- Q - Exceeds quality control limits.
- U - Compound analyzed for but not detected above the detection limit.
- N - The identification is based on presumptive evidence.

# AIR TOXICS LTD.

SAMPLE NAME : 7217A&B

ID#: 9811263-01A/B

Modified VOST 5041A

|              |         |                              |
|--------------|---------|------------------------------|
| File Name:   | 9117706 | Date of Collection: 11/13/98 |
| Dil. Factor: | 1.0     | Date of Analysis: 11/17/98   |

| Compound                         | Det. Limit (nG) | Amount (nG)  |
|----------------------------------|-----------------|--------------|
| Chloromethane                    | 10              | Not Detected |
| Vinyl Chloride                   | 5.0             | Not Detected |
| Bromomethane                     | 10              | Not Detected |
| Chloroethane                     | 5.0             | Not Detected |
| 1,1-Dichloroethene               | 5.0             | Not Detected |
| Carbon Disulfide                 | 5.0             | Not Detected |
| Acetone                          | 50              | Not Detected |
| Methylene Chloride               | 5.0             | Not Detected |
| trans-1,2-Dichloroethene         | 5.0             | Not Detected |
| 1,1-Dichloroethane               | 5.0             | Not Detected |
| Vinyl Acetate                    | 10              | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 50              | Not Detected |
| Chloroform                       | 5.0             | Not Detected |
| 1,1,1-Trichloroethane            | 5.0             | Not Detected |
| Carbon Tetrachloride             | 5.0             | Not Detected |
| Benzene                          | 5.0             | Not Detected |
| 1,2-Dichloroethane               | 5.0             | Not Detected |
| Trichloroethene                  | 5.0             | Not Detected |
| 1,2-Dichloropropane              | 5.0             | Not Detected |
| Bromodichloromethane             | 5.0             | Not Detected |
| trans-1,3-Dichloropropene        | 5.0             | Not Detected |
| 4-Methyl-2-pentanone             | 10              | Not Detected |
| Toluene                          | 5.0             | Not Detected |
| cis-1,3-Dichloropropene          | 5.0             | Not Detected |
| 1,1,2-Trichloroethane            | 5.0             | Not Detected |
| Tetrachloroethene                | 5.0             | Not Detected |
| 2-Hexanone                       | 10              | Not Detected |
| Dibromochloromethane             | 5.0             | Not Detected |
| Chlorobenzene                    | 5.0             | Not Detected |
| Ethyl Benzene                    | 5.0             | Not Detected |
| m,p-Xylene                       | 5.0             | Not Detected |
| o-Xylene                         | 5.0             | Not Detected |
| Styrene                          | 5.0             | Not Detected |
| Bromoform                        | 5.0             | Not Detected |
| 1,1,2,2-Tetrachloroethane        | 5.0             | Not Detected |
| cis-1,2-Dichloroethene           | 5.0             | Not Detected |

### TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported

| Compound        | CAS Number | Match Quality | Amount (nG) |
|-----------------|------------|---------------|-------------|
| None Identified |            |               |             |
| None Identified |            |               |             |

Container Type: VOST Tube

# AIR TOXICS LTD.

SAMPLE NAME : 7217A&B

ID#: 9811263-01A/B

Modified VOST 5041A

|              |         |                     |          |
|--------------|---------|---------------------|----------|
| File Name:   | 9111706 | Date of Collection: | 11/13/98 |
| Dil. Factor: | 1.0     | Date of Analysis:   | 11/17/98 |

| Surrogates            | % Recovery | Method Limits |
|-----------------------|------------|---------------|
| 1,2-Dichloroethane-d4 | 89         | 69-112        |
| Toluene-d8            | 112        | 72-134        |
| 4-Bromofluorobenzene  | 94         | 78-119        |
| Dibromofluoromethane  | 99         | 70-130        |

# AIR TOXICS LTD.

SAMPLE NAME : 7102A&B

ID#: 9811263-02A/B

Modified VOST 5041A

|              |         |                     |          |
|--------------|---------|---------------------|----------|
| File Name:   | 9111707 | Date of Collection: | 11/13/98 |
| Dil. Factor: | 1.0     | Date of Analysis:   | 11/17/98 |

| Compound                         | Det. Limit (nG) | Amount (nG)  |
|----------------------------------|-----------------|--------------|
| Chloromethane                    | 10              | Not Detected |
| Vinyl Chloride                   | 5.0             | 1700 E       |
| Bromomethane                     | 10              | 22           |
| Chloroethane                     | 5.0             | 790          |
| 1,1-Dichloroethene               | 5.0             | 150          |
| Carbon Disulfide                 | 5.0             | 1900 E       |
| Acetone                          | 50              | Not Detected |
| Methylene Chloride               | 5.0             | 150          |
| trans-1,2-Dichloroethene         | 5.0             | 260          |
| 1,1-Dichloroethane               | 5.0             | 11000 S      |
| Vinyl Acetate                    | 10              | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 50              | Not Detected |
| Chloroform                       | 5.0             | Not Detected |
| 1,1,1-Trichloroethane            | 5.0             | 5400 E       |
| Carbon Tetrachloride             | 5.0             | 880          |
| Benzene                          | 5.0             | 4000 E       |
| 1,2-Dichloroethane               | 5.0             | Not Detected |
| Trichloroethene                  | 5.0             | 5900 E       |
| 1,2-Dichloropropane              | 5.0             | 540          |
| Bromodichloromethane             | 5.0             | Not Detected |
| trans-1,3-Dichloropropene        | 5.0             | Not Detected |
| 4-Methyl-2-pentanone             | 10              | Not Detected |
| Toluene                          | 5.0             | 2100 E       |
| cis-1,3-Dichloropropene          | 5.0             | Not Detected |
| 1,1,2-Trichloroethane            | 5.0             | Not Detected |
| Tetrachloroethene                | 5.0             | 5000 E       |
| 2-Hexanone                       | 10              | Not Detected |
| Dibromochloromethane             | 5.0             | Not Detected |
| Chlorobenzene                    | 5.0             | 240          |
| Ethyl Benzene                    | 5.0             | 9200 E       |
| m,p-Xylene                       | 5.0             | 16000 S      |
| o-Xylene                         | 5.0             | 8600 S       |
| Styrene                          | 5.0             | 280          |
| Bromoform                        | 5.0             | Not Detected |
| 1,1,2,2-Tetrachloroethane        | 5.0             | Not Detected |
| cis-1,2-Dichloroethene           | 5.0             | 5300 E       |

### TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported

| Compound                                 | CAS Number | Match Quality | Amount (nG) |
|--|------------|---------------|-------------|
| Ethane, 1,2-dichloro-1,1,2,2-tetrafluoro | 76-14-2    | Manual ID     | 11000       |
| Methane, trichlorofluoro-                | 75-69-4    | 83 %          | 16000       |
| Ethyl ether                              | 60-29-7    | 86 %          | 6400        |
| Cyclopentane, methyl-                    | 96-37-7    | 78 %          | 430         |
| Unknown                                  | NA         | NA            | 900         |
| Heptane                                  | 142-82-5   | 78 %          | 830         |

# AIR TOXICS LTD.

SAMPLE NAME : 7102A&B

ID#: 9811263-02A/B

Modified VOST 5041A

|              |         |                     |          |
|--------------|---------|---------------------|----------|
| File Name:   | 9111707 | Date of Collection: | 11/13/98 |
| Dil. Factor: | 1.0     | Date of Analysis:   | 11/17/98 |

| TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported |            |               |             |
|--|------------|---------------|-------------|
| Compound   | CAS Number | Match Quality | Amount (ng) |
| Cyclohexane, ethyl-                                | 1678-91-7  | 86 %          | 270         |
| .alpha.-Pinene                                     | 80-56-8    | 94 %          | 1100        |
| Benzene, 1,3,5-trimethyl-                          | 108-67-8   | 94 %          | 260         |
| Benzene, 1,3-dichloro-                             | 541-73-1   | 98 %          | 250         |

E = Exceeds instrument calibration range.

Q = Exceeds Quality Control limits.

S = Saturated peak; data reported as estimated.

Container Type: VOST Tube

| Surrogates            | % Recovery | Method Limits |
|-----------------------|------------|---------------|
| 1,2-Dichloroethane-d4 | 100        | 69-112        |
| Toluene-d8            | 130        | 72-134        |
| 4-Bromofluorobenzene  | 186 Q      | 78-119        |
| Dibromofluoromethane  | 93         | 70-130        |

# AIR TOXICS LTD.

SAMPLE NAME : 7206A&B

ID#: 9811263-03A/B

Modified VOST 5041A

|              |         |                     |          |
|--------------|---------|---------------------|----------|
| File Name:   | 9111810 | Date of Collection: | 11/13/98 |
| Dil. Factor: | 140     | Date of Analysis:   | 11/18/98 |

| Compound                         | Det. Limit (nG) | Amount (nG)  |
|----------------------------------|-----------------|--------------|
| Chloromethane                    | 1400            | Not Detected |
| Vinyl Chloride                   | 700             | 2300         |
| Bromomethane                     | 1400            | Not Detected |
| Chloroethane                     | 700             | Not Detected |
| 1,1-Dichloroethene               | 700             | Not Detected |
| Carbon Disulfide                 | 700             | 2900         |
| Acetone                          | 7000            | Not Detected |
| Methylene Chloride               | 700             | Not Detected |
| trans-1,2-Dichloroethene         | 700             | Not Detected |
| 1,1-Dichloroethane               | 700             | 52000        |
| Vinyl Acetate                    | 1400            | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 7000            | Not Detected |
| Chloroform                       | 700             | Not Detected |
| 1,1,1-Trichloroethane            | 700             | 6600         |
| Carbon Tetrachloride             | 700             | Not Detected |
| Benzene                          | 700             | 4300         |
| 1,2-Dichloroethane               | 700             | Not Detected |
| Trichloroethene                  | 700             | 5900         |
| 1,2-Dichloropropane              | 700             | Not Detected |
| Bromodichloromethane             | 700             | Not Detected |
| trans-1,3-Dichloropropene        | 700             | Not Detected |
| 4-Methyl-2-pentanone             | 1400            | Not Detected |
| Toluene                          | 700             | 2000         |
| cis-1,3-Dichloropropene          | 700             | Not Detected |
| 1,1,2-Trichloroethane            | 700             | Not Detected |
| Tetrachloroethene                | 700             | 5600         |
| 2-Hexanone                       | 1400            | Not Detected |
| Dibromochloromethane             | 700             | Not Detected |
| Chlorobenzene                    | 700             | Not Detected |
| Ethyl Benzene                    | 700             | 7500         |
| m,p-Xylene                       | 700             | 8700         |
| o-Xylene                         | 700             | 7000         |
| Styrene                          | 700             | Not Detected |
| Bromoform                        | 700             | Not Detected |
| 1,1,2,2-Tetrachloroethane        | 700             | Not Detected |
| cis-1,2-Dichloroethene           | 700             | 5400         |

## TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported

| Compound                   | CAS Number | Match Quality | Amount (nG) |
|----------------------------|------------|---------------|-------------|
| Methane, dichlorodifluoro- | 75-71-8    | 91 %          | 51000       |
| Methane, trichlorofluoro-  | 75-69-4    | 72 %          | 420000      |
| Benzene, 1,3,5-trimethyl-  | 108-67-8   | 91 %          | 3600        |
| Benzene, 1,2,3-trimethyl-  | 526-73-8   | 91 %          | 4300        |

# AIR TOXICS LTD.

SAMPLE NAME : 7206A&B

ID#: 9811263-03A/B

Modified VOST 5041A

|             |         |                     |          |
|-------------|---------|---------------------|----------|
| File Name:  | 9111810 | Date of Collection: | 11/13/98 |
| Dil Factor: | 140     | Date of Analysis:   | 11/18/98 |

Container Type: VOST Tube

| Surrogates            | % Recovery | Method Limits |
|-----------------------|------------|---------------|
| 1,2-Dichloroethane-d4 | 83         | 69-112        |
| Toluene-d8            | 119        | 72-134        |
| 4-Bromofluorobenzene  | 102        | 78-119        |
| Dibromofluoromethane  | 96         | 70-130        |
| Benzene-d6            | 76         | 70-130        |

# AIR TOXICS LTD.

SAMPLE NAME : 7209A&B

ID#: 9811263-04A/B

Modified VOST 5041A

|              |         |                     |          |
|--------------|---------|---------------------|----------|
| File Name:   | 9111812 | Date of Collection: | 11/13/98 |
| Dil. Factor: | 140     | Date of Analysis:   | 11/18/98 |

| Compound                         | Det. Limit (nG) | Amount (nG)  |
|----------------------------------|-----------------|--------------|
| Chloromethane                    | 1400            | Not Detected |
| Vinyl Chloride                   | 700             | Not Detected |
| Bromomethane                     | 1400            | Not Detected |
| Chloroethane                     | 700             | 4200         |
| 1,1-Dichloroethene               | 700             | Not Detected |
| Carbon Disulfide                 | 700             | Not Detected |
| Acetone                          | 7000            | Not Detected |
| Methylene Chloride               | 700             | Not Detected |
| trans-1,2-Dichloroethene         | 700             | Not Detected |
| 1,1-Dichloroethane               | 700             | 10000        |
| Vinyl Acetate                    | 1400            | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 7000            | Not Detected |
| Chloroform                       | 700             | Not Detected |
| 1,1,1-Trichloroethane            | 700             | Not Detected |
| Carbon Tetrachloride             | 700             | Not Detected |
| Benzene                          | 700             | 9900         |
| 1,2-Dichloroethane               | 700             | Not Detected |
| Trichloroethene                  | 700             | Not Detected |
| 1,2-Dichloropropane              | 700             | Not Detected |
| Bromodichloromethane             | 700             | Not Detected |
| trans-1,3-Dichloropropene        | 700             | Not Detected |
| 4-Methyl-2-pentanone             | 1400            | Not Detected |
| Toluene                          | 700             | 4800         |
| cis-1,3-Dichloropropene          | 700             | Not Detected |
| 1,1,2-Trichloroethane            | 700             | Not Detected |
| Tetrachloroethene                | 700             | Not Detected |
| 2-Hexanone                       | 1400            | Not Detected |
| Dibromochloromethane             | 700             | Not Detected |
| Chlorobenzene                    | 700             | Not Detected |
| Ethyl Benzene                    | 700             | 65000        |
| m,p-Xylene                       | 700             | 150000       |
| o-Xylene                         | 700             | 4700         |
| Styrene                          | 700             | Not Detected |
| Bromoform                        | 700             | Not Detected |
| 1,1,2,2-Tetrachloroethane        | 700             | Not Detected |
| cis-1,2-Dichloroethene           | 700             | Not Detected |

### TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported

| Compound                                  | CAS Number | Match Quality | Amount (nG) |
|---|------------|---------------|-------------|
| Methane, dichlorodifluoro-                | 75-71-8    | 91 %          | 28000       |
| Cyclopentane, methyl-                     | 96-37-7    | 91 %          | 38000       |
| Cyclopentane, 1,2-dimethyl-, cis-         | 1192-18-3  | 87 %          | 83000       |
| Heptane                                   | 142-82-5   | Manual ID     | 92000       |
| Cyclopentane, 1,2,3-trimethyl-, (1.alpha) | 15890-40-1 | 93 %          | 32000       |
| Heptane, 2-methyl-                        | 592-27-8   | Manual ID     | 31000       |

# AIR TOXICS LTD.

SAMPLE NAME : 7209A&B

ID#: 9811263-04A/B

Modified VOST 5041A

|              |         |                     |          |
|--------------|---------|---------------------|----------|
| File Name:   | 9111812 | Date of Collection: | 11/13/98 |
| Dil. Factor: | 140     | Date of Analysis:   | 11/18/98 |

## TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported

| Compound                           | CAS Number | Match Quality | Amount (nG) |
|------------------------------------|------------|---------------|-------------|
| Cyclohexane, 1,3-dimethyl-, trans- | 2207-03-6  | 90 %          | 27000       |
| Benzene, 1-ethyl-2-methyl-         | 611-14-3   | Manual ID     | 29000       |
| Benzene, 1-ethyl-4-methyl-         | 622-96-8   | 94 %          | 30000       |
| Benzene, 1,3,5-trimethyl-          | 108-67-8   | 94 %          | 79000       |

Q = Exceeds Quality Control limits.

Container Type: VOST Tube

| Surrogates            | % Recovery | Method Limits |
|-----------------------|------------|---------------|
| 1,2-Dichloroethane-d4 | 87         | 69-112        |
| Toluene-d8            | 129        | 72-134        |
| 4-Bromofluorobenzene  | 163 Q      | 78-119        |
| Dibromofluoromethane  | 96         | 70-130        |
| Benzene-d6            | 108        | 70-130        |

# AIR TOXICS LTD.

SAMPLE NAME : 7107A&B

ID#: 9811263-05A/B

Modified VOST 5041A

|              |          |                     |          |
|--------------|----------|---------------------|----------|
| File Name:   | 98111813 | Date of Collection: | 11/13/98 |
| Dil. Factor: | 1.2      | Date of Analysis:   | 11/18/98 |

| Compound                         | Det. Limit (nG) | Amount (nG)  |
|----------------------------------|-----------------|--------------|
| Chloromethane                    | 12              | Not Detected |
| Vinyl Chloride                   | 6.0             | Not Detected |
| Bromomethane                     | 12              | Not Detected |
| Chloroethane                     | 6.0             | Not Detected |
| 1,1-Dichloroethene               | 6.0             | Not Detected |
| Carbon Disulfide                 | 6.0             | Not Detected |
| Acetone                          | 60              | 79           |
| Methylene Chloride               | 6.0             | 29           |
| trans-1,2-Dichloroethene         | 6.0             | Not Detected |
| 1,1-Dichloroethane               | 6.0             | Not Detected |
| Vinyl Acetate                    | 12              | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 60              | Not Detected |
| Chloroform                       | 6.0             | Not Detected |
| 1,1,1-Trichloroethane            | 6.0             | Not Detected |
| Carbon Tetrachloride             | 6.0             | 9.2          |
| Benzene                          | 6.0             | 51           |
| 1,2-Dichloroethane               | 6.0             | Not Detected |
| Trichloroethene                  | 6.0             | Not Detected |
| 1,2-Dichloropropane              | 6.0             | Not Detected |
| Bromodichloromethane             | 6.0             | Not Detected |
| trans-1,3-Dichloropropene        | 6.0             | Not Detected |
| 4-Methyl-2-pentanone             | 12              | Not Detected |
| Toluene                          | 6.0             | 64           |
| cis-1,3-Dichloropropene          | 6.0             | Not Detected |
| 1,1,2-Trichloroethane            | 6.0             | Not Detected |
| Tetrachloroethene                | 6.0             | 15           |
| 2-Hexanone                       | 12              | Not Detected |
| Dibromochloromethane             | 6.0             | Not Detected |
| Chlorobenzene                    | 6.0             | Not Detected |
| Ethyl Benzene                    | 6.0             | 18           |
| m,p-Xylene                       | 6.0             | 35           |
| o-Xylene                         | 6.0             | 10           |
| Styrene                          | 6.0             | 26           |
| Bromoform                        | 6.0             | Not Detected |
| 1,1,2,2-Tetrachloroethane        | 6.0             | Not Detected |
| cis-1,2-Dichloroethene           | 6.0             | Not Detected |

### TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported

| Compound                                 | CAS Number | Match Quality | Amount (nG) |
|--|------------|---------------|-------------|
| Unknown                                  | NA         | NA            | 210         |
| Unknown                                  | NA         | NA            | 73          |
| Benzene, 1-ethyl-4-methyl-               | 622-96-8   | 94 %          | 35          |
| Cyclohexene, 4-methyl-1-(1-methylethyl)- | 500-00-5   | 76 %          | 29          |
| Decane                                   | 124-18-5   | 92 %          | 32          |
| Benzene, 1,3,5-trimethyl-                | 108-67-8   | 94 %          | 110         |

# AIR TOXICS LTD.

SAMPLE NAME : 7107A&B

ID#: 9811263-05A/B

Modified VOST 5041A

|             |         |                    |          |
|-------------|---------|--------------------|----------|
| File Name   | 9111813 | Date of Collection | 11/13/98 |
| Dil. Factor | 1.2     | Date of Analysis   | 11/18/98 |

## TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported

| Compound                        | CAS Number | Match Quality | Amount (nG) |
|---------------------------------|------------|---------------|-------------|
| Benzene, 2-ethyl-1,3-dimethyl-  | 2870-04-4  | 94 %          | 36          |
| Benzene, methyl(1-methylethyl)- | 25155-15-1 | 91 %          | 33          |

Q = Exceeds Quality Control limits.

Container Type: VOST Tube

| Surrogates            | % Recovery | Method Limits |
|-----------------------|------------|---------------|
| 1,2-Dichloroethane-d4 | 93         | 69-112        |
| Toluene-d8            | 112        | 72-134        |
| 4-Bromofluorobenzene  | 102        | 78-119        |
| Dibromofluoromethane  | 98         | 70-130        |
| Benzene-d6            | 69 Q       | 70-130        |

# AIR TOXICS LTD.

SAMPLE NAME : 7120A&B

ID#: 9811263-06A/B

Modified VOST 5041A

|              |         |                     |          |
|--------------|---------|---------------------|----------|
| File Name:   | 9111814 | Date of Collection: | 11/13/98 |
| Dil. Factor: | 1.2     | Date of Analysis:   | 11/18/98 |

| Compound                         | Det. Limit (nG) | Amount (nG)  |
|----------------------------------|-----------------|--------------|
| Chloromethane                    | 12              | Not Detected |
| Vinyl Chloride                   | 6.0             | 34           |
| Bromomethane                     | 12              | Not Detected |
| Chloroethane                     | 6.0             | Not Detected |
| 1,1-Dichloroethene               | 6.0             | 6.9          |
| Carbon Disulfide                 | 6.0             | 55           |
| Acetone                          | 60              | 230          |
| Methylene Chloride               | 6.0             | Not Detected |
| trans-1,2-Dichloroethene         | 6.0             | Not Detected |
| 1,1-Dichloroethane               | 6.0             | Not Detected |
| Vinyl Acetate                    | 12              | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 60              | 76           |
| Chloroform                       | 6.0             | Not Detected |
| 1,1,1-Trichloroethane            | 6.0             | 91           |
| Carbon Tetrachloride             | 6.0             | Not Detected |
| Benzene                          | 6.0             | 46           |
| 1,2-Dichloroethane               | 6.0             | Not Detected |
| Trichloroethene                  | 6.0             | Not Detected |
| 1,2-Dichloropropane              | 6.0             | Not Detected |
| Bromodichloromethane             | 6.0             | Not Detected |
| trans-1,3-Dichloropropene        | 6.0             | Not Detected |
| 4-Methyl-2-pentanone             | 12              | Not Detected |
| Toluene                          | 6.0             | 10           |
| cis-1,3-Dichloropropene          | 6.0             | Not Detected |
| 1,1,2-Trichloroethane            | 6.0             | Not Detected |
| Tetrachloroethene                | 6.0             | 12           |
| 2-Hexanone                       | 12              | Not Detected |
| Dibromochloromethane             | 6.0             | Not Detected |
| Chlorobenzene                    | 6.0             | Not Detected |
| Ethyl Benzene                    | 6.0             | Not Detected |
| m,p-Xylene                       | 6.0             | Not Detected |
| o-Xylene                         | 6.0             | Not Detected |
| Styrene                          | 6.0             | Not Detected |
| Bromoform                        | 6.0             | Not Detected |
| 1,1,2,2-Tetrachloroethane        | 6.0             | Not Detected |
| cis-1,2-Dichloroethene           | 6.0             | Not Detected |

### TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported

| Compound                                 | CAS Number | Match Quality | Amount (nG) |
|--|------------|---------------|-------------|
| Methane, dichlorodifluoro-               | 75-71-8    | 91 %          | 980         |
| Ethane, 1,2-dichloro-1,1,2,2-tetrafluoro | 76-14-2    | 86 %          | 3200        |
| Unknown                                  | NA         | NA            | 160         |
| Unknown                                  | NA         | NA            | 46          |
| Methane, trichlorofluoro-                | 75-69-4    | 90 %          | 80          |
| cis-1-Butyl-2-methylcyclopropane         | 38851-69-3 | 94 %          | 180         |

# AIR TOXICS LTD.

SAMPLE NAME : 7120A&B

ID#: 9811263-06A/B

Modified VOST 5041A

File Name: 9111814 Date of Collection: 11/13/98  
Dil. Factor: 1.2 Date of Analysis: 11/18/98

## TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported

| Compound       | CAS Number | Match Quality | Amount (ng) |
|----------------|------------|---------------|-------------|
| .alpha.-Pinene | 80-56-8    | 95 %          | 470         |
| Camphene       | 79-92-5    | 94 %          | 210         |
| .beta.-Pinene  | 127-91-3   | 91 %          | 140         |
| .beta.-Myrcene | 123-35-3   | Manual ID     | 59          |
| Nonanal        | 124-19-6   | 78 %          | 61          |

Container Type: VOST Tube

| Surrogates            | % Recovery | Method Limits |
|-----------------------|------------|---------------|
| 1,2-Dichloroethane-d4 | 97         | 69-112        |
| Toluene-d8            | 104        | 72-134        |
| 4-Bromofluorobenzene  | 116        | 78-119        |
| Dibromofluoromethane  | 101        | 70-130        |
| Benzene-d6            | 92         | 70-130        |

# AIR TOXICS LTD.

SAMPLE NAME : 7219A&B

ID#: 9811263-07A/B

Modified VOST 5041A

|              |        |                     |          |
|--------------|--------|---------------------|----------|
| File Name:   | 911815 | Date of Collection: | 11/13/98 |
| Dil. Factor: | 1.1    | Date of Analysis:   | 11/18/98 |

| Compound                         | Det. Limit (nG) | Amount (nG)  |
|----------------------------------|-----------------|--------------|
| Chloromethane                    | 11              | Not Detected |
| Vinyl Chloride                   | 5.5             | Not Detected |
| Bromomethane                     | 11              | Not Detected |
| Chloroethane                     | 5.5             | Not Detected |
| 1,1-Dichloroethene               | 5.5             | Not Detected |
| Carbon Disulfide                 | 5.5             | Not Detected |
| Acetone                          | 55              | Not Detected |
| Methylene Chloride               | 5.5             | Not Detected |
| trans-1,2-Dichloroethene         | 5.5             | Not Detected |
| 1,1-Dichloroethane               | 5.5             | Not Detected |
| Vinyl Acetate                    | 11              | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 55              | Not Detected |
| Chloroform                       | 5.5             | Not Detected |
| 1,1,1-Trichloroethane            | 5.5             | Not Detected |
| Carbon Tetrachloride             | 5.5             | Not Detected |
| Benzene                          | 5.5             | 32           |
| 1,2-Dichloroethane               | 5.5             | Not Detected |
| Trichloroethene                  | 5.5             | Not Detected |
| 1,2-Dichloropropane              | 5.5             | Not Detected |
| Bromodichloromethane             | 5.5             | Not Detected |
| trans-1,3-Dichloropropene        | 5.5             | Not Detected |
| 4-Methyl-2-pentanone             | 11              | Not Detected |
| Toluene                          | 5.5             | Not Detected |
| cis-1,3-Dichloropropene          | 5.5             | Not Detected |
| 1,1,2-Trichloroethane            | 5.5             | Not Detected |
| Tetrachloroethene                | 5.5             | Not Detected |
| 2-Hexanone                       | 11              | Not Detected |
| Dibromochloromethane             | 5.5             | Not Detected |
| Chlorobenzene                    | 5.5             | Not Detected |
| Ethyl Benzene                    | 5.5             | 12           |
| m,p-Xylene                       | 5.5             | 28           |
| o-Xylene                         | 5.5             | Not Detected |
| Styrene                          | 5.5             | Not Detected |
| Bromoform                        | 5.5             | Not Detected |
| 1,1,2,2-Tetrachloroethane        | 5.5             | Not Detected |
| cis-1,2-Dichloroethene           | 5.5             | Not Detected |

### TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported

| Compound                                 | CAS Number | Match Quality | Amount (nG) |
|--|------------|---------------|-------------|
| Ethane, 1,2-dichloro-1,1,2,2-tetrafluoro | 76-14-2    | 90 %          | 110         |
| Hexane, 3-methyl-                        | 589-34-4   | 72 %          | 32          |
| Cyclohexane, methyl-                     | 108-87-2   | 93 %          | 65          |
| Cyclohexane, ethyl-                      | 1678-91-7  | 86 %          | 35          |
| Benzene, 1,3,5-trimethyl-                | 108-67-8   | 94 %          | 40          |

# AIR TOXICS LTD.

SAMPLE NAME : 7219A&B

ID#: 9811263-07A/B

Modified VOST 5041A

|            |         |                    |          |
|------------|---------|--------------------|----------|
| File Name  | 9111815 | Date of Collection | 11/13/98 |
| Dil Factor | 1:1     | Date of Analysis   | 11/18/98 |

Container Type: VOST Tube

| Surrogates            | % Recovery | Method Limits |
|-----------------------|------------|---------------|
| 1,2-Dichloroethane-d4 | 93         | 69-112        |
| Toluene-d8            | 113        | 72-134        |
| 4-Bromofluorobenzene  | 98         | 78-119        |
| Dibromofluoromethane  | 101        | 70-130        |
| Benzene-d6            | 68         | 70-130        |

# AIR TOXICS LTD.

SAMPLE NAME : 7124A&B

ID#: 9811263-08A/B

Modified VOST 5041A

|             |         |                    |          |
|-------------|---------|--------------------|----------|
| File Name   | 9111816 | Date of Collection | 11/13/98 |
| Dil. Factor | 1:1     | Date of Analysis   | 11/18/98 |

| Compound                         | Det. Limit (nG) | Amount (nG)  |
|----------------------------------|-----------------|--------------|
| Chloromethane                    | 11              | Not Detected |
| Vinyl Chloride                   | 5.5             | Not Detected |
| Bromomethane                     | 11              | Not Detected |
| Chloroethane                     | 5.5             | Not Detected |
| 1,1-Dichloroethene               | 5.5             | Not Detected |
| Carbon Disulfide                 | 5.5             | 25           |
| Acetone                          | 55              | Not Detected |
| Methylene Chloride               | 5.5             | Not Detected |
| trans-1,2-Dichloroethene         | 5.5             | Not Detected |
| 1,1-Dichloroethane               | 5.5             | Not Detected |
| Vinyl Acetate                    | 11              | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 55              | Not Detected |
| Chloroform                       | 5.5             | Not Detected |
| 1,1,1-Trichloroethane            | 5.5             | Not Detected |
| Carbon Tetrachloride             | 5.5             | Not Detected |
| Benzene                          | 5.5             | 39           |
| 1,2-Dichloroethane               | 5.5             | Not Detected |
| Trichloroethene                  | 5.5             | Not Detected |
| 1,2-Dichloropropane              | 5.5             | Not Detected |
| Bromodichloromethane             | 5.5             | Not Detected |
| trans-1,3-Dichloropropene        | 5.5             | Not Detected |
| 4-Methyl-2-pentanone             | 11              | Not Detected |
| Toluene                          | 5.5             | Not Detected |
| cis-1,3-Dichloropropene          | 5.5             | Not Detected |
| 1,1,2-Trichloroethane            | 5.5             | Not Detected |
| Tetrachloroethene                | 5.5             | Not Detected |
| 2-Hexanone                       | 11              | Not Detected |
| Dibromochloromethane             | 5.5             | Not Detected |
| Chlorobenzene                    | 5.5             | Not Detected |
| Ethyl Benzene                    | 5.5             | Not Detected |
| m,p-Xylene                       | 5.5             | Not Detected |
| o-Xylene                         | 5.5             | Not Detected |
| Styrene                          | 5.5             | Not Detected |
| Bromoform                        | 5.5             | Not Detected |
| 1,1,2,2-Tetrachloroethane        | 5.5             | Not Detected |
| cis-1,2-Dichloroethene           | 5.5             | Not Detected |

### TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported

| Compound                   | CAS Number | Match Quality | Amount (nG) |
|----------------------------|------------|---------------|-------------|
| Methane, dichlorodifluoro- | 75-71-8    | 83 %          | 54          |
| 3-Cyclohepten-1-one        | 1121-64-8  | 91 %          | 150         |
| Unknown                    | NA         | NA            | 40          |
| Nonanal                    | 124-19-6   | 83 %          | 65          |

# AIR TOXICS LTD.

SAMPLE NAME : 7124A&B

ID#: 9811263-08A/B

Modified VOST 5041A

|              |         |                     |          |
|--------------|---------|---------------------|----------|
| File Name:   | 9111816 | Date of Collection: | 11/13/98 |
| Dil. Factor: | 1:1     | Date of Analysis:   | 11/18/98 |

Container Type: VOST Tube

| Surrogates            | % Recovery | Method Limits |
|-----------------------|------------|---------------|
| 1,2-Dichloroethane-d4 | 93         | 69-112        |
| Toluene-d8            | 87         | 72-134        |
| 4-Bromofluorobenzene  | 100        | 78-119        |
| Dibromofluoromethane  | 98         | 70-130        |
| Benzene-d6            | 87         | 70-130        |

# AIR TOXICS LTD.

SAMPLE NAME : Lab Blank

ID#: 9811263-09A

Modified VOST 5041A

|              |         |                     |          |
|--------------|---------|---------------------|----------|
| File Name:   | 9811704 | Date of Collection: | NA       |
| Dil. Factor: | 1.0     | Date of Analysis:   | 11/17/98 |

| Compound                         | Det. Limit (nG) | Amount (nG)  |
|----------------------------------|-----------------|--------------|
| Chloromethane                    | 10              | Not Detected |
| Vinyl Chloride                   | 5.0             | Not Detected |
| Bromomethane                     | 10              | Not Detected |
| Chloroethane                     | 5.0             | Not Detected |
| 1,1-Dichloroethene               | 5.0             | Not Detected |
| Carbon Disulfide                 | 5.0             | Not Detected |
| Acetone                          | 50              | Not Detected |
| Methylene Chloride               | 5.0             | Not Detected |
| trans-1,2-Dichloroethene         | 5.0             | Not Detected |
| 1,1-Dichloroethane               | 5.0             | Not Detected |
| Vinyl Acetate                    | 10              | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 50              | Not Detected |
| Chloroform                       | 5.0             | Not Detected |
| 1,1,1-Trichloroethane            | 5.0             | Not Detected |
| Carbon Tetrachloride             | 5.0             | Not Detected |
| Benzene                          | 5.0             | Not Detected |
| 1,2-Dichloroethane               | 5.0             | Not Detected |
| Trichloroethene                  | 5.0             | Not Detected |
| 1,2-Dichloropropane              | 5.0             | Not Detected |
| Bromodichloromethane             | 5.0             | Not Detected |
| trans-1,3-Dichloropropene        | 5.0             | Not Detected |
| 4-Methyl-2-pentanone             | 10              | Not Detected |
| Toluene                          | 5.0             | Not Detected |
| cis-1,3-Dichloropropene          | 5.0             | Not Detected |
| 1,1,2-Trichloroethane            | 5.0             | Not Detected |
| Tetrachloroethene                | 5.0             | Not Detected |
| 2-Hexanone                       | 10              | Not Detected |
| Dibromochloromethane             | 5.0             | Not Detected |
| Chlorobenzene                    | 5.0             | Not Detected |
| Ethyl Benzene                    | 5.0             | Not Detected |
| m,p-Xylene                       | 5.0             | Not Detected |
| o-Xylene                         | 5.0             | Not Detected |
| Styrene                          | 5.0             | Not Detected |
| Bromoform                        | 5.0             | Not Detected |
| 1,1,2,2-Tetrachloroethane        | 5.0             | Not Detected |
| cis-1,2-Dichloroethene           | 5.0             | Not Detected |

### TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported

| Compound        | CAS Number | Match Quality | Amount (nG) |
|-----------------|------------|---------------|-------------|
| None Identified |            |               |             |
| None Identified |            |               |             |

Container Type: NA

# AIR TOXICS LTD.

SAMPLE NAME : Lab Blank

ID#: 9811263-09A

Modified VOST 5041A

|              |         |                     |          |
|--------------|---------|---------------------|----------|
| File Name:   | 9111704 | Date of Collection: | NA       |
| Dil. Factor: | 1.0     | Date of Analysis:   | 11/17/98 |

| Surrogates            | % Recovery | Method Limits |
|-----------------------|------------|---------------|
| 1,2-Dichloroethane-d4 | 95         | 69-112        |
| Toluene-d8            | 107        | 72-134        |
| 4-Bromofluorobenzene  | 96         | 78-119        |
| Dibromofluoromethane  | 100        | 70-130        |

# AIR TOXICS LTD.

SAMPLE NAME : Lab Blank

ID#: 9811263-09B

Modified VOST 5041A

|              |         |                            |
|--------------|---------|----------------------------|
| File Name:   | 9111807 | Date of Collection: NA     |
| Dil. Factor: | 1.0     | Date of Analysis: 11/18/98 |

| Compound                         | Det. Limit (nG) | Amount (nG)  |
|----------------------------------|-----------------|--------------|
| Chloromethane                    | 10              | Not Detected |
| Vinyl Chloride                   | 5.0             | Not Detected |
| Bromomethane                     | 10              | Not Detected |
| Chloroethane                     | 5.0             | Not Detected |
| 1,1-Dichloroethene               | 5.0             | Not Detected |
| Carbon Disulfide                 | 5.0             | Not Detected |
| Acetone                          | 50              | Not Detected |
| Methylene Chloride               | 5.0             | Not Detected |
| trans-1,2-Dichloroethene         | 5.0             | Not Detected |
| 1,1-Dichloroethane               | 5.0             | Not Detected |
| Vinyl Acetate                    | 10              | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 50              | Not Detected |
| Chloroform                       | 5.0             | Not Detected |
| 1,1,1-Trichloroethane            | 5.0             | Not Detected |
| Carbon Tetrachloride             | 5.0             | Not Detected |
| Benzene                          | 5.0             | Not Detected |
| 1,2-Dichloroethane               | 5.0             | Not Detected |
| Trichloroethene                  | 5.0             | Not Detected |
| 1,2-Dichloropropane              | 5.0             | Not Detected |
| Bromodichloromethane             | 5.0             | Not Detected |
| trans-1,3-Dichloropropene        | 5.0             | Not Detected |
| 4-Methyl-2-pentanone             | 10              | Not Detected |
| Toluene                          | 5.0             | Not Detected |
| cis-1,3-Dichloropropene          | 5.0             | Not Detected |
| 1,1,2-Trichloroethane            | 5.0             | Not Detected |
| Tetrachloroethene                | 5.0             | Not Detected |
| 2-Hexanone                       | 10              | Not Detected |
| Dibromochloromethane             | 5.0             | Not Detected |
| Chlorobenzene                    | 5.0             | Not Detected |
| Ethyl Benzene                    | 5.0             | Not Detected |
| m,p-Xylene                       | 5.0             | Not Detected |
| o-Xylene                         | 5.0             | Not Detected |
| Styrene                          | 5.0             | Not Detected |
| Bromoform                        | 5.0             | Not Detected |
| 1,1,2,2-Tetrachloroethane        | 5.0             | Not Detected |
| cis-1,2-Dichloroethene           | 5.0             | Not Detected |

**TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported**

| Compound        | CAS Number | Match Quality | Amount (nG) |
|-----------------|------------|---------------|-------------|
| None Identified |            |               |             |
| None Identified |            |               |             |

Container Type: NA

# AIR TOXICS LTD.

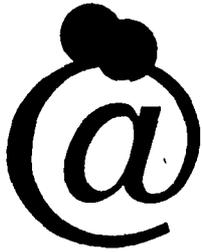
SAMPLE NAME : Lab Blank

ID#: 9811263-09B

Modified VOST 5041A

|              |         |                     |          |
|--------------|---------|---------------------|----------|
| File Name:   | 9111807 | Date of Collection: | NA       |
| Dil. Factor: | 1.0     | Date of Analysis:   | 11/18/98 |

| Surrogates            | % Recovery | Method Limits |
|-----------------------|------------|---------------|
| 1,2-Dichloroethane-d4 | 94         | 69-112        |
| Toluene-d8            | 104        | 72-134        |
| 4-Bromofluorobenzene  | 94         | 78-119        |
| Dibromofluoromethane  | 99         | 70-130        |



**AIR TOXICS LTD.**  
AN ENVIRONMENTAL ANALYTICAL LABORATORY

180 BLUE RAVINE ROAD, SUITE B  
FOLSOM, CA 95630-4719  
(916) 985-1000 FAX: (916) 985-1020

# CHAIN-OF-CUSTODY RECORD

No 017741

Page 1 of 1

|   |  |   |
|---|--|---|
| Contact Person <u>Richard Grabowski</u><br>Company <u>US Army Corps of Engineers</u><br>Address <u>215 North 17th St.</u> City <u>Omaha</u> State <u>NE</u> Zip <u>68102</u><br>Phone <u>(402) 221-7784</u> FAX <u>(402) 221-7769</u><br>Collected By: Signature <u>Richard Grabowski</u> | Project Info:<br>P.O. # <u>NR</u><br>Project # <u>DACW45-99-P-0094</u><br>Project Name <u>Himeco Dump Superfund Site</u> | Turn Around Time:<br><input checked="" type="checkbox"/> Normal<br><input type="checkbox"/> Rush _____<br>Specify _____ |
|---|--|---|

| Lab I.D. | Field Sample I.D. | Date & Time   | Analyses Requested         | Canister Pressure / Vacuum |       |         |
|----------|-------------------|---------------|----------------------------|----------------------------|-------|---------|
|          |                   |               |                            | Initial                    | Final | Receipt |
| 01A/B    | 7101 A & B        | 11/12/98 0700 | UOST 5041A / 8260 B / TICS | N/A                        | N/A   |         |
| 02A/B    | 7125 A & B        | 11/12/98 0905 | UOST 5041A / 8260 B / TICS | N/A                        | N/A   |         |
| 03A/B    | 7211 A & B        | 11/12/98 1101 | UOST 5041A / 8260 B / TICS | N/A                        | N/A   |         |
| 04A/B    | 7121 A & B        | 11/12/98 1230 | UOST 5041A / 8260 B / TICS | N/A                        | N/A   |         |
| 05A/B    | 7112 A & B        | 11/12/98 1654 | UOST 5041A / 8260 B / TICS | N/A                        | N/A   |         |
|          |                   |               |                            |                            |       |         |
|          |                   |               |                            |                            |       |         |
|          |                   |               |                            |                            |       |         |
|          |                   |               |                            |                            |       |         |

|  |  |                                  |
|--|--|----------------------------------|
| Relinquished By: (Signature) <u>[Signature]</u> Date/Time <u>11/12/98 1930</u><br>Relinquished By: (Signature) _____ Date/Time _____<br>Relinquished By: (Signature) _____ Date/Time _____ | Print Name <u>RICHARD J GRABOWSKI</u><br>Received By: (Signature) <u>[Signature]</u> Date/Time <u>11/13/98 920</u><br>Received By: (Signature) _____ Date/Time _____ | Notes:<br><u>AR 11/13/98 920</u> |
|--|--|----------------------------------|

|              |                            |                                |                      |                               |                          |                       |  |                             |
|--------------|----------------------------|--------------------------------|----------------------|-------------------------------|--------------------------|-----------------------|--|-----------------------------|
| Lab Use Only | Shipper Name <u>Fed-ex</u> | Air Bill # <u>809286252003</u> | Opened By: <u>TS</u> | Date/Time <u>11/13/98 920</u> | Temp. (°C) <u>On ice</u> | Condition <u>Good</u> | Custody Seals Intact? <input checked="" type="radio"/> Yes <input type="radio"/> No <input type="radio"/> None <input type="radio"/> N/A | Work Order # <u>9811253</u> |
|--------------|----------------------------|--------------------------------|----------------------|-------------------------------|--------------------------|-----------------------|--|-----------------------------|

# @AIR TOXICS LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

## WORK ORDER #: 9811284

### Work Order Summary

**CLIENT:** Mr. Steve Peterson  
U.S. Army Corps of Engineers  
215 N. 17th Street, Zorinsky Bldg.  
Omaha, NE 68102-4978

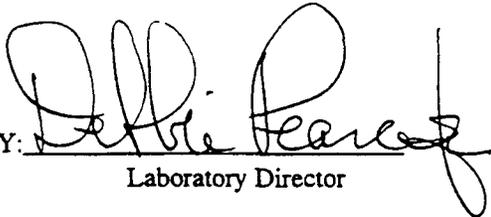
**BILL TO:** Same

**PHONE:** 402-221-7183  
**FAX:** 402-221-7769  
**DATE RECEIVED:** 11/17/98  
**DATE COMPLETED:** 12/04/98

**P.O. #** NR  
**PROJECT #** DACW45-99-P-0094 Himco Dump

| <u>FRACTION #</u> | <u>NAME</u> | <u>TEST</u>            |
|-------------------|-------------|------------------------|
| 01A/B             | 7205 A&B    | VOST 5041A/8260B/TIC's |
| 02A/B             | 7113 A&B    | VOST 5041A/8260B/TIC's |
| 03A/B             | 7116 A&B    | VOST 5041A/8260B/TIC's |
| 04A/B             | 7106 A&B    | VOST 5041A/8260B/TIC's |
| 05A/B             | 7122 A&B    | VOST 5041A/8260B/TIC's |
| 06A/B             | 7104 A&B    | VOST 5041A/8260B/TIC's |
| 07A/B             | 7123 A&B    | VOST 5041A/8260B/TIC's |
| 08A/B             | 7203 A&B    | VOST 5041A/8260B/TIC's |
| 09A/B             | 7215 A&B    | VOST 5041A/8260B/TIC's |
| 10A/B             | 7201 A&B    | VOST 5041A/8260B/TIC's |
| 11A               | Lab Blank   | VOST 5041A/8260B/TIC's |
| 12A               | Lab Blank   | VOST 5041A/8260B/TIC's |
| 13A               | Lab Blank   | VOST 5041A/8260B/TIC's |

CERTIFIED BY:

  
Laboratory Director

DATE: 12/4/98

Certification numbers: CA ELAP - 1149, NY ELAP - 11291, UT ELAP - E-217

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA 95630  
(916) 985-1000 • (800) 985-5955 • FAX (916) 985-1020

# AIR TOXICS LTD.

SAMPLE NAME : 7205 A&B

ID#: 9811284-01A

Modified VOST 5041A

|                      |                |                              |
|----------------------|----------------|------------------------------|
| File No: 9811284-01A | Date: 11/17/98 | Date of Collection: 11/16/98 |
| File Name: 117       |                | Date of Analysis: 11/22/98   |

| Compound                         | Det. Limit (nG) | Amount (nG)  |
|----------------------------------|-----------------|--------------|
| Chloromethane                    | 17              | Not Detected |
| Vinyl Chloride                   | 8.5             | Not Detected |
| Bromomethane                     | 17              | Not Detected |
| Chloroethane                     | 8.5             | Not Detected |
| 1,1-Dichloroethene               | 8.5             | Not Detected |
| Carbon Disulfide                 | 8.5             | 11           |
| Acetone                          | 85              | Not Detected |
| Methylene Chloride               | 8.5             | Not Detected |
| trans-1,2-Dichloroethene         | 8.5             | Not Detected |
| 1,1-Dichloroethane               | 8.5             | Not Detected |
| Vinyl Acetate                    | 17              | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 85              | Not Detected |
| Chloroform                       | 8.5             | Not Detected |
| 1,1,1-Trichloroethane            | 8.5             | Not Detected |
| Carbon Tetrachloride             | 8.5             | Not Detected |
| Benzene                          | 8.5             | Not Detected |
| 1,2-Dichloroethane               | 8.5             | Not Detected |
| Trichloroethene                  | 8.5             | Not Detected |
| 1,2-Dichloropropane              | 8.5             | Not Detected |
| Bromodichloromethane             | 8.5             | Not Detected |
| trans-1,3-Dichloropropene        | 8.5             | Not Detected |
| 4-Methyl-2-pentanone             | 17              | Not Detected |
| Toluene                          | 8.5             | Not Detected |
| cis-1,3-Dichloropropene          | 8.5             | Not Detected |
| 1,1,2-Trichloroethane            | 8.5             | Not Detected |
| Tetrachloroethene                | 8.5             | Not Detected |
| 2-Hexanone                       | 17              | Not Detected |
| Dibromochloromethane             | 8.5             | Not Detected |
| Chlorobenzene                    | 8.5             | Not Detected |
| Ethyl Benzene                    | 8.5             | Not Detected |
| m,p-Xylene                       | 8.5             | Not Detected |
| o-Xylene                         | 8.5             | Not Detected |
| Styrene                          | 8.5             | Not Detected |
| Bromoform                        | 8.5             | Not Detected |
| 1,1,2,2-Tetrachloroethane        | 8.5             | Not Detected |
| cis-1,2-Dichloroethene           | 8.5             | Not Detected |

### TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported

| Compound | CAS Number | Match Quality | Amount (nG) |
|----------|------------|---------------|-------------|
| Unknown  | NA         | NA            | 47          |
| Unknown  | NA         | NA            | 46          |

Container Type: VOST Tube

# AIR TOXICS LTD.

SAMPLE NAME : 7205 A&B

ID#: 9811284-01A

Modified VOST 5041A

|              |        |                     |          |
|--------------|--------|---------------------|----------|
| FILE NO:     | 9-2206 | Date of Collection: | 11-15-98 |
| LAB FILE NO: | 47     | Date of Analysis:   | 11-22-98 |

| Surrogates            | % Recovery | Method Limits |
|-----------------------|------------|---------------|
| 1,2-Dichloroethane-d4 | 101        | 69-112        |
| Toluene-d8            | 96         | 72-134        |
| 4-Bromofluorobenzene  | 93         | 78-119        |
| Dibromofluoromethane  | 106        | 70-130        |
| Benzene-d6            | 77         | 70-130        |

# AIR TOXICS LTD.

SAMPLE NAME : 7113 A&B

ID#: 9811284-02A

Modified VOST 5041A

|                   |                              |
|-------------------|------------------------------|
| Site Name: 31229B | Date of Collection: 11/16/98 |
| Lab. # : 300      | Date of Analysis: 11/22/98   |

| Compound                         | Det. Limit (nG) | Amount (nG)  |
|----------------------------------|-----------------|--------------|
| Chloromethane                    | 3400            | Not Detected |
| Vinyl Chloride                   | 1700            | 490000 E     |
| Bromomethane                     | 3400            | Not Detected |
| Chloroethane                     | 1700            | Not Detected |
| 1,1-Dichloroethene               | 1700            | 7100         |
| Carbon Disulfide                 | 1700            | 69000        |
| Acetone                          | 17000           | Not Detected |
| Methylene Chloride               | 1700            | Not Detected |
| trans-1,2-Dichloroethene         | 1700            | Not Detected |
| 1,1-Dichloroethane               | 1700            | 10000        |
| Vinyl Acetate                    | 3400            | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 17000           | Not Detected |
| Chloroform                       | 1700            | 6300         |
| 1,1,1-Trichloroethane            | 1700            | Not Detected |
| Carbon Tetrachloride             | 1700            | Not Detected |
| Benzene                          | 1700            | 5000         |
| 1,2-Dichloroethane               | 1700            | Not Detected |
| Trichloroethene                  | 1700            | 340000 E     |
| 1,2-Dichloropropane              | 1700            | Not Detected |
| Bromodichloromethane             | 1700            | Not Detected |
| trans-1,3-Dichloropropene        | 1700            | Not Detected |
| 4-Methyl-2-pentanone             | 3400            | Not Detected |
| Toluene                          | 1700            | 240000       |
| cis-1,3-Dichloropropene          | 1700            | Not Detected |
| 1,1,2-Trichloroethane            | 1700            | Not Detected |
| Tetrachloroethene                | 1700            | 990000 E     |
| 2-Hexanone                       | 3400            | Not Detected |
| Dibromochloromethane             | 1700            | Not Detected |
| Chlorobenzene                    | 1700            | Not Detected |
| Ethyl Benzene                    | 1700            | 230000       |
| m,p-Xylene                       | 1700            | 130000       |
| o-Xylene                         | 1700            | 32000        |
| Styrene                          | 1700            | 8200         |
| Bromoform                        | 1700            | Not Detected |
| 1,1,2,2-Tetrachloroethane        | 1700            | Not Detected |
| cis-1,2-Dichloroethene           | 1700            | 44000        |

### TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported

| Compound                                 | CAS Number | Match Quality | Amount (nG) |
|--|------------|---------------|-------------|
| Methane, dichlorodifluoro-               | 75-71-8    | Manual ID     | 200000      |
| Ethane, 1,2-dichloro-1,1,2,2-tetrafluoro | 76-14-2    | 78 %          | 530000      |
| 1-Propene, 2-methyl-                     | 115-11-7   | 80 %          | 320000      |
| Hexane                                   | 110-54-3   | 91 %          | 75000       |
| Cyclopentane, methyl-                    | 96-37-7    | 80 %          | 45000       |
| Cyclohexane, ethyl-                      | 1678-91-7  | Manual ID     | 71000       |

# AIR TOXICS LTD.

SAMPLE NAME : 7113 A&B

ID#: 9811284-02A

Modified VOST 5041A

|              |         |                  |         |
|--------------|---------|------------------|---------|
| Project Name | 9811284 | Lab Collection # | 1159    |
| Client       | 370     | Date of Analysis | 7/27/98 |

## TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported

| Compound                                 | CAS Number | Match Quality | Amount (nG) |
|--|------------|---------------|-------------|
| Nonane                                   | 111-84-2   | 87 %          | 120000      |
| .alpha.-Pinene                           | 80-56-8    | 96 %          | 230000      |
| Octane, 2,2,6-trimethyl-                 | 62016-28-8 | Manual ID     | 96000       |
| Decane                                   | 124-18-5   | 87 %          | 46000       |
| Cyclopropane, 1,1-dimethyl-2-(3-methyl-1 | 68998-21-0 | 87 %          | 47000       |

E = Exceeds instrument calibration range.

Container Type: VOST Tube

| Surrogates            | % Recovery | Method Limits |
|-----------------------|------------|---------------|
| 1,2-Dichloroethane-d4 | 93         | 69-112        |
| Toluene-d8            | 93         | 72-134        |
| 4-Bromofluorobenzene  | 100        | 78-119        |
| Dibromofluoromethane  | 96         | 70-130        |
| Benzene-d6            | 93         | 70-130        |

# AIR TOXICS LTD.

SAMPLE NAME : 7116 A&B

ID#: 9811284-03A

Modified VOST 5041A

|             |             |                    |          |
|-------------|-------------|--------------------|----------|
| File Name   | 9811284-03A | Date of Collection | 11/15/98 |
| Dir. Factor | 100         | Date of Analysis   | 11/25/98 |

| Compound                         | Det. Limit (nG) | Amount (nG)  |
|----------------------------------|-----------------|--------------|
| Chloromethane                    | 19000           | Not Detected |
| Vinyl Chloride                   | 9500            | 520000       |
| Bromomethane                     | 19000           | Not Detected |
| Chloroethane                     | 9500            | Not Detected |
| 1,1-Dichloroethene               | 9500            | Not Detected |
| Carbon Disulfide                 | 9500            | 140000       |
| Acetone                          | 95000           | Not Detected |
| Methylene Chloride               | 9500            | Not Detected |
| trans-1,2-Dichloroethene         | 9500            | Not Detected |
| 1,1-Dichloroethane               | 9500            | Not Detected |
| Vinyl Acetate                    | 19000           | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 95000           | Not Detected |
| Chloroform                       | 9500            | Not Detected |
| 1,1,1-Trichloroethane            | 9500            | Not Detected |
| Carbon Tetrachloride             | 9500            | Not Detected |
| Benzene                          | 9500            | Not Detected |
| 1,2-Dichloroethane               | 9500            | Not Detected |
| Trichloroethene                  | 9500            | 480000       |
| 1,2-Dichloropropane              | 9500            | Not Detected |
| Bromodichloromethane             | 9500            | Not Detected |
| trans-1,3-Dichloropropene        | 9500            | Not Detected |
| 4-Methyl-2-pentanone             | 19000           | Not Detected |
| Toluene                          | 9500            | 300000       |
| cis-1,3-Dichloropropene          | 9500            | Not Detected |
| 1,1,2-Trichloroethane            | 9500            | Not Detected |
| Tetrachloroethene                | 9500            | 1800000      |
| 2-Hexanone                       | 19000           | Not Detected |
| Dibromochloromethane             | 9500            | Not Detected |
| Chlorobenzene                    | 9500            | Not Detected |
| Ethyl Benzene                    | 9500            | 340000       |
| m,p-Xylene                       | 9500            | 190000       |
| o-Xylene                         | 9500            | 44000        |
| Styrene                          | 9500            | Not Detected |
| Bromoform                        | 9500            | Not Detected |
| 1,1,2,2-Tetrachloroethane        | 9500            | Not Detected |
| cis-1,2-Dichloroethene           | 9500            | 39000        |

### TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported

| Compound                                 | CAS Number | Match Quality | Amount (nG) |
|--|------------|---------------|-------------|
| Methane, dichlorodifluoro-               | 75-71-8    | 83 %          | 670000      |
| Ethane, 1,2-dichloro-1,1,2,2-tetrafluoro | 76-14-2    | 86 %          | 1700000     |
| 1-Propene, 2-methyl-                     | 115-11-7   | Manual ID     | 860000      |
| Octane                                   | 111-65-9   | 91 %          | 280000      |
| Nonane                                   | 111-84-2   | 87 %          | 220000      |
| .alpha.-Pinene                           | 80-56-8    | 96 %          | 490000      |

# AIR TOXICS LTD.

SAMPLE NAME : 7116 A&B

ID#: 9811284-03A

Modified VOST 5041A

|            |         |                   |          |
|------------|---------|-------------------|----------|
| File Name  | 3/25/98 | File # Collection | 11/15/98 |
| Dr. Factor | 100     | Date of Analysis  | 1/25/98  |

## TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported

| Compound                   | CAS Number | Match Quality | Amount (nG) |
|----------------------------|------------|---------------|-------------|
| Octane, 2,5,6-trimethyl-   | 62016-14-2 | Manual ID     | 320000      |
| Benzene, 1-ethyl-3-methyl- | 620-14-4   | 95 %          | 130000      |
| Decane                     | 124-18-5   | 90 %          | 130000      |
| 3-Carene                   | 13466-78-9 | 87 %          | 160000      |

Container Type: VOST Tube

| Surrogates            | % Recovery | Method Limits |
|-----------------------|------------|---------------|
| 1,2-Dichloroethane-d4 | 91         | 69-112        |
| Toluene-d8            | 108        | 72-134        |
| 4-Bromofluorobenzene  | 112        | 78-119        |
| Dibromofluoromethane  | 91         | 70-130        |
| Benzene-d6            | 80         | 70-130        |

# AIR TOXICS LTD.

SAMPLE NAME : 7106 A&B

ID#: 9811284-04A

Modified VOST 5041A

|                    |                           |
|--------------------|---------------------------|
| File Name: 3-13041 | Prog. Collection: 710698  |
| Di. Factor: 1.0    | Date of Analysis: 3/19/98 |

| Compound                         | Det. Limit (nG) | Amount (nG)  |
|----------------------------------|-----------------|--------------|
| Chloromethane                    | 13              | Not Detected |
| Vinyl Chloride                   | 6.5             | Not Detected |
| Bromomethane                     | 13              | Not Detected |
| Chloroethane                     | 6.5             | Not Detected |
| 1,1-Dichloroethene               | 6.5             | Not Detected |
| Carbon Disulfide                 | 6.5             | 9.1          |
| Acetone                          | 65              | Not Detected |
| Methylene Chloride               | 6.5             | 1300         |
| trans-1,2-Dichloroethene         | 6.5             | 8.6          |
| 1,1-Dichloroethane               | 6.5             | Not Detected |
| Vinyl Acetate                    | 13              | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 65              | Not Detected |
| Chloroform                       | 6.5             | Not Detected |
| 1,1,1-Trichloroethane            | 6.5             | Not Detected |
| Carbon Tetrachloride             | 6.5             | 9.5          |
| Benzene                          | 6.5             | 64           |
| 1,2-Dichloroethane               | 6.5             | Not Detected |
| Trichloroethene                  | 6.5             | Not Detected |
| 1,2-Dichloropropane              | 6.5             | Not Detected |
| Bromodichloromethane             | 6.5             | Not Detected |
| trans-1,3-Dichloropropene        | 6.5             | Not Detected |
| 4-Methyl-2-pentanone             | 13              | Not Detected |
| Toluene                          | 6.5             | 110          |
| cis-1,3-Dichloropropene          | 6.5             | Not Detected |
| 1,1,2-Trichloroethane            | 6.5             | Not Detected |
| Tetrachloroethene                | 6.5             | Not Detected |
| 2-Hexanone                       | 13              | Not Detected |
| Dibromochloromethane             | 6.5             | Not Detected |
| Chlorobenzene                    | 6.5             | Not Detected |
| Ethyl Benzene                    | 6.5             | 21           |
| m,p-Xylene                       | 6.5             | 54           |
| o-Xylene                         | 6.5             | 20           |
| Styrene                          | 6.5             | 31           |
| Bromoform                        | 6.5             | Not Detected |
| 1,1,2,2-Tetrachloroethane        | 6.5             | Not Detected |
| cis-1,2-Dichloroethene           | 6.5             | 6.5          |

### TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported

| Compound                   | CAS Number | Match Quality | Amount (nG) |
|----------------------------|------------|---------------|-------------|
| Methane, dichlorodifluoro- | 75-71-8    | 83 %          | 51          |
| Butane                     | 106-97-8   | Manual ID     | 49          |
| Pentane                    | 109-66-0   | 90 %          | 34          |
| Hexane                     | 110-54-3   | Manual ID     | 40          |

# AIR TOXICS LTD.

SAMPLE NAME : 7106 A&B

ID#: 9811284-04A

Modified VOST 5041A

|           |      |                    |        |
|-----------|------|--------------------|--------|
| Field No. | 7106 | Date of Collection | 7/8/98 |
| Field     |      | Date of Analysis   | 3/1/99 |

Container Type: VOST Tube

| Surrogates            | % Recovery | Method Limits |
|-----------------------|------------|---------------|
| 1,2-Dichloroethane-d4 | 103        | 69-112        |
| Toluene-d8            | 95         | 72-134        |
| 4-Bromofluorobenzene  | 100        | 78-119        |
| Dibromofluoromethane  | 96         | 70-130        |
| Benzene-d6            | 98         | 70-130        |

# AIR TOXICS LTD.

SAMPLE NAME : 7122 A&B

ID#: 9811284-05A

Modified VOST 5041A

|           |             |                    |         |
|-----------|-------------|--------------------|---------|
| File Name | 9811284-05A | Date of Collection | 11/6/98 |
| Di Factor |             | Date of Analysis   | 10/98   |

| Compound                         | Det. Limit (nG) | Amount (nG)  |
|----------------------------------|-----------------|--------------|
| Chloromethane                    | 13              | 14           |
| Vinyl Chloride                   | 6.5             | Not Detected |
| Bromomethane                     | 13              | Not Detected |
| Chloroethane                     | 6.5             | Not Detected |
| 1,1-Dichloroethene               | 6.5             | Not Detected |
| Carbon Disulfide                 | 6.5             | 33           |
| Acetone                          | 65              | Not Detected |
| Methylene Chloride               | 6.5             | 620          |
| trans-1,2-Dichloroethene         | 6.5             | Not Detected |
| 1,1-Dichloroethane               | 6.5             | Not Detected |
| Vinyl Acetate                    | 13              | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 65              | Not Detected |
| Chloroform                       | 6.5             | Not Detected |
| 1,1,1-Trichloroethane            | 6.5             | Not Detected |
| Carbon Tetrachloride             | 6.5             | 8.7          |
| Benzene                          | 6.5             | 56           |
| 1,2-Dichloroethane               | 6.5             | Not Detected |
| Trichloroethene                  | 6.5             | Not Detected |
| 1,2-Dichloropropane              | 6.5             | Not Detected |
| Bromodichloromethane             | 6.5             | Not Detected |
| trans-1,3-Dichloropropene        | 6.5             | Not Detected |
| 4-Methyl-2-pentanone             | 13              | Not Detected |
| Toluene                          | 6.5             | 99           |
| cis-1,3-Dichloropropene          | 6.5             | Not Detected |
| 1,1,2-Trichloroethane            | 6.5             | Not Detected |
| Tetrachloroethene                | 6.5             | 14           |
| 2-Hexanone                       | 13              | Not Detected |
| Dibromochloromethane             | 6.5             | Not Detected |
| Chlorobenzene                    | 6.5             | Not Detected |
| Ethyl Benzene                    | 6.5             | 19           |
| m,p-Xylene                       | 6.5             | 49           |
| o-Xylene                         | 6.5             | 15           |
| Styrene                          | 6.5             | 50           |
| Bromoform                        | 6.5             | Not Detected |
| 1,1,2,2-Tetrachloroethane        | 6.5             | Not Detected |
| cis-1,2-Dichloroethene           | 6.5             | Not Detected |

### TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported

| Compound                   | CAS Number | Match Quality | Amount (nG) |
|----------------------------|------------|---------------|-------------|
| Methane, dichlorodifluoro- | 75-71-8    | 83 %          | 42          |
| Butane                     | 106-97-8   | Manual ID     | 51          |
| Pentane                    | 109-66-0   | 90 %          | 45          |
| Hexane                     | 110-54-3   | 90 %          | 57          |

# AIR TOXICS LTD.

SAMPLE NAME : 7122 A&B

ID#: 9811284-05A

Modified VOST 5041A

|                  |             |                     |          |
|------------------|-------------|---------------------|----------|
| File Name:       | 9811284-05A | Date of Collection: | 11/16/98 |
| Dilution Factor: | 1X          | Date of Analysis:   | 12/23/98 |

Container Type: VOST Tube

| Surrogates            | % Recovery | Method Limits |
|-----------------------|------------|---------------|
| 1,2-Dichloroethane-d4 | 94         | 69-112        |
| Toluene-d8            | 96         | 72-134        |
| 4-Bromofluorobenzene  | 110        | 78-119        |
| Dibromofluoromethane  | 96         | 70-130        |
| Benzene-d6            | 95         | 70-130        |

# AIR TOXICS LTD.

SAMPLE NAME : 7104 A&B

ID#: 9811284-06A

Modified VOST 5041A

|                   |                             |
|-------------------|-----------------------------|
| File Name: 973936 | Date of Collection: 1/16/98 |
| Di. Factor: 50    | Date of Analysis: 1/16/98   |

| Compound                         | Det. Limit (nG) | Amount (nG)  |
|----------------------------------|-----------------|--------------|
| Chloromethane                    | 1300            | Not Detected |
| Vinyl Chloride                   | 650             | Not Detected |
| Bromomethane                     | 1300            | 1400         |
| Chloroethane                     | 650             | Not Detected |
| 1,1-Dichloroethene               | 650             | Not Detected |
| Carbon Disulfide                 | 650             | Not Detected |
| Acetone                          | 6500            | Not Detected |
| Methylene Chloride               | 650             | Not Detected |
| trans-1,2-Dichloroethene         | 650             | Not Detected |
| 1,1-Dichloroethane               | 650             | Not Detected |
| Vinyl Acetate                    | 1300            | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 6500            | Not Detected |
| Chloroform                       | 650             | Not Detected |
| 1,1,1-Trichloroethane            | 650             | Not Detected |
| Carbon Tetrachloride             | 650             | Not Detected |
| Benzene                          | 650             | Not Detected |
| 1,2-Dichloroethane               | 650             | Not Detected |
| Trichloroethene                  | 650             | 1900         |
| 1,2-Dichloropropane              | 650             | Not Detected |
| Bromodichloromethane             | 650             | Not Detected |
| trans-1,3-Dichloropropene        | 650             | Not Detected |
| 4-Methyl-2-pentanone             | 1300            | Not Detected |
| Toluene                          | 650             | Not Detected |
| cis-1,3-Dichloropropene          | 650             | Not Detected |
| 1,1,2-Trichloroethane            | 650             | Not Detected |
| Tetrachloroethene                | 650             | 85000        |
| 2-Hexanone                       | 1300            | Not Detected |
| Dibromochloromethane             | 650             | Not Detected |
| Chlorobenzene                    | 650             | Not Detected |
| Ethyl Benzene                    | 650             | Not Detected |
| m,p-Xylene                       | 650             | Not Detected |
| o-Xylene                         | 650             | Not Detected |
| Styrene                          | 650             | Not Detected |
| Bromoform                        | 650             | Not Detected |
| 1,1,2,2-Tetrachloroethane        | 650             | Not Detected |
| cis-1,2-Dichloroethene           | 650             | Not Detected |

### TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported

| Compound                                 | CAS Number | Match Quality | Amount (nG) |
|--|------------|---------------|-------------|
| Methane, dichlorodifluoro-               | 75-71-8    | 83 %          | 27000       |
| Ethane, 1,2-dichloro-1,1,2,2-tetrafluoro | 76-14-2    | 78 %          | 66000       |

Container Type: VOST Tube

# AIR TOXICS LTD.

SAMPLE NAME : 7104 A&B

ID#: 9811284-06A

Modified VOST 5041A

|           |         |                    |          |
|-----------|---------|--------------------|----------|
| File Name | 5041A35 | Date of collection | 12/5/98  |
| DL Factor | 10      | Date of analysis   | 12/10/98 |

| Surrogates            | % Recovery | Method Limits |
|-----------------------|------------|---------------|
| 1,2-Dichloroethane-d4 | 104        | 69-112        |
| Toluene-d8            | 97         | 72-134        |
| 4-Bromofluorobenzene  | 104        | 78-119        |
| Dibromofluoromethane  | 103        | 70-130        |
| Benzene-d6            | 87         | 70-130        |

# AIR TOXICS LTD.

SAMPLE NAME : 7123 A&B

ID#: 9811284-07A

Modified VOST 5041A

|                    |                             |
|--------------------|-----------------------------|
| File Name: 9811284 | Date of Collection: 7/25/98 |
| DL Factor: 10      | Date of Analysis: 8/30/98   |

| Compound                         | Det. Limit (nG) | Amount (nG)  |
|----------------------------------|-----------------|--------------|
| Chloromethane                    | 100             | Not Detected |
| Vinyl Chloride                   | 50              | Not Detected |
| Bromomethane                     | 100             | Not Detected |
| Chloroethane                     | 50              | Not Detected |
| 1,1-Dichloroethene               | 50              | Not Detected |
| Carbon Disulfide                 | 50              | 150          |
| Acetone                          | 500             | Not Detected |
| Methylene Chloride               | 50              | Not Detected |
| trans-1,2-Dichloroethene         | 50              | Not Detected |
| 1,1-Dichloroethane               | 50              | Not Detected |
| Vinyl Acetate                    | 100             | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 500             | Not Detected |
| Chloroform                       | 50              | Not Detected |
| 1,1,1-Trichloroethane            | 50              | Not Detected |
| Carbon Tetrachloride             | 50              | Not Detected |
| Benzene                          | 50              | 2200         |
| 1,2-Dichloroethane               | 50              | Not Detected |
| Trichloroethene                  | 50              | 300          |
| 1,2-Dichloropropane              | 50              | Not Detected |
| Bromodichloromethane             | 50              | Not Detected |
| trans-1,3-Dichloropropene        | 50              | Not Detected |
| 4-Methyl-2-pentanone             | 100             | Not Detected |
| Toluene                          | 50              | 140          |
| cis-1,3-Dichloropropene          | 50              | Not Detected |
| 1,1,2-Trichloroethane            | 50              | Not Detected |
| Tetrachloroethene                | 50              | 1300         |
| 2-Hexanone                       | 100             | Not Detected |
| Dibromochloromethane             | 50              | Not Detected |
| Chlorobenzene                    | 50              | Not Detected |
| Ethyl Benzene                    | 50              | 1100         |
| m,p-Xylene                       | 50              | 1100         |
| o-Xylene                         | 50              | 650          |
| Styrene                          | 50              | 56           |
| Bromoform                        | 50              | Not Detected |
| 1,1,2,2-Tetrachloroethane        | 50              | Not Detected |
| cis-1,2-Dichloroethene           | 50              | 120          |

### TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported

| Compound                                 | CAS Number | Match Quality | Amount (nG) |
|--|------------|---------------|-------------|
| Methane, dichlorodifluoro-               | 75-71-8    | 81 %          | 3200        |
| Ethane, 1,2-dichloro-1,1,2,2-tetrafluoro | 76-14-2    | Manual ID     | 23000       |
| Hexane                                   | 110-54-3   | 91 %          | 1400        |
| Hydroxylamine, O-decyl-                  | 29812-79-1 | 72 %          | 1600        |
| 3-Heptene, 3-ethyl-                      | 74764-46-8 | Manual ID     | 2200        |
| 1-Dotriacontanol                         | 6624-79-9  | Manual ID     | 2400        |

# AIR TOXICS LTD.

SAMPLE NAME : 7123 A&B

ID#: 9811284-07A

Modified VOST 5041A

|            |         |                    |          |
|------------|---------|--------------------|----------|
| File Name  | 9811284 | Date of Collection | 11/16/98 |
| Dr. Folder | 40      | Date of Analysis   | 12/09/98 |

## TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported

| Compound                             | CAS Number | Match Quality | Amount (ng) |
|--------------------------------------|------------|---------------|-------------|
| Benzene, 1-ethyl-3-methyl-           | 620-14-4   | 91 %          | 1500        |
| Benzene, 1,2,3-trimethyl-            | 526-73-8   | 93 %          | 1200        |
| Benzene, 1-ethenyl-2-methyl-         | 611-15-4   | 83 %          | 1300        |
| Benzene, 1-methyl-3-(1-methylethyl)- | 535-77-3   | 94 %          | 1700        |

Q = Exceeds Quality Control limits.

Container Type: VOST Tube

| Surrogates            | % Recovery | Method Limits |
|-----------------------|------------|---------------|
| 1,2-Dichloroethane-d4 | 103        | 69-112        |
| Toluene-d8            | 99         | 72-134        |
| 4-Bromofluorobenzene  | 162 Q      | 78-119        |
| Dibromofluoromethane  | 103        | 70-130        |
| Benzene-d6            | 112        | 70-130        |

# AIR TOXICS LTD.

SAMPLE NAME : 7203 A&B

ID#: 9811284-08A

Modified VOST 5041A

|                |         |                    |         |
|----------------|---------|--------------------|---------|
| Date of Sample | 3/20/98 | Date of Collection | 3/20/98 |
| Date of Report | 3/23/98 | Date of Analysis   | 3/23/98 |

| Compound                         | Det. Limit (ng) | Amount (ng)  |
|----------------------------------|-----------------|--------------|
| Chloromethane                    | 13              | Not Detected |
| Vinyl Chloride                   | 6.5             | Not Detected |
| Bromomethane                     | 13              | Not Detected |
| Chloroethane                     | 6.5             | Not Detected |
| 1,1-Dichloroethene               | 6.5             | Not Detected |
| Carbon Disulfide                 | 6.5             | 32           |
| Acetone                          | 65              | Not Detected |
| Methylene Chloride               | 6.5             | Not Detected |
| trans-1,2-Dichloroethene         | 6.5             | Not Detected |
| 1,1-Dichloroethane               | 6.5             | Not Detected |
| Vinyl Acetate                    | 13              | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 65              | Not Detected |
| Chloroform                       | 6.5             | Not Detected |
| 1,1,1-Trichloroethane            | 6.5             | 160          |
| Carbon Tetrachloride             | 6.5             | Not Detected |
| Benzene                          | 6.5             | 33           |
| 1,2-Dichloroethane               | 6.5             | Not Detected |
| Trichloroethene                  | 6.5             | Not Detected |
| 1,2-Dichloropropane              | 6.5             | Not Detected |
| Bromodichloromethane             | 6.5             | Not Detected |
| trans-1,3-Dichloropropene        | 6.5             | Not Detected |
| 4-Methyl-2-pentanone             | 13              | Not Detected |
| Toluene                          | 6.5             | 7.2          |
| cis-1,3-Dichloropropene          | 6.5             | Not Detected |
| 1,1,2-Trichloroethane            | 6.5             | Not Detected |
| Tetrachloroethene                | 6.5             | 4900 E       |
| 2-Hexanone                       | 13              | Not Detected |
| Dibromochloromethane             | 6.5             | Not Detected |
| Chlorobenzene                    | 6.5             | Not Detected |
| Ethyl Benzene                    | 6.5             | Not Detected |
| m,p-Xylene                       | 6.5             | 11           |
| o-Xylene                         | 6.5             | Not Detected |
| Styrene                          | 6.5             | Not Detected |
| Bromoform                        | 6.5             | Not Detected |
| 1,1,2,2-Tetrachloroethane        | 6.5             | Not Detected |
| cis-1,2-Dichloroethene           | 6.5             | Not Detected |

### TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported

| Compound                                 | CAS Number | Match Quality | Amount (ng) |
|--|------------|---------------|-------------|
| Methane, dichlorodifluoro-               | 75-71-8    | Manual ID     | 1000        |
| Ethane, 1,2-dichloro-1,1,2,2-tetrafluoro | 76-14-2    | 78 %          | 1500        |
| Methane, trichlorofluoro-                | 75-69-4    | 90 %          | 280         |
| Nonanal                                  | 124-19-6   | 72 %          | 46          |

E = Exceeds instrument calibration range.

# AIR TOXICS LTD.

ID#: 9811284-08A

|            |         |                    |          |
|------------|---------|--------------------|----------|
| File Name  | 9811284 | Date of Collection | 11/16/98 |
| Dil Factor | 1       | Date of Analysis   | 11/30/98 |

Container Type: VOST Tube

| Surrogates            | % Recovery | Method Limits |
|-----------------------|------------|---------------|
| 1,2-Dichloroethane-d4 | 103        | 69-112        |
| Toluene-d8            | 94         | 72-134        |
| 4-Bromofluorobenzene  | 101        | 78-119        |
| Dibromofluoromethane  | 92         | 70-130        |
| Benzene-d6            | 100        | 70-130        |

# AIR TOXICS LTD.

SAMPLE NAME : 7215 A&B

ID#: 9811284-09A

Modified VOST 5041A

|              |            |                              |
|--------------|------------|------------------------------|
| File Name:   | Sample ID: | Date of Collection: 01/15/98 |
| File Factor: | 1.0        | Date of Analysis: 01/30/98   |

| Compound                         | Det. Limit (nG) | Amount (nG)  |
|----------------------------------|-----------------|--------------|
| Chloromethane                    | 13              | Not Detected |
| Vinyl Chloride                   | 6.5             | Not Detected |
| Bromomethane                     | 13              | Not Detected |
| Chloroethane                     | 6.5             | Not Detected |
| 1,1-Dichloroethene               | 6.5             | 9.4          |
| Carbon Disulfide                 | 6.5             | 20           |
| Acetone                          | 65              | Not Detected |
| Methylene Chloride               | 6.5             | Not Detected |
| trans-1,2-Dichloroethene         | 6.5             | 11           |
| 1,1-Dichloroethane               | 6.5             | Not Detected |
| Vinyl Acetate                    | 13              | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 65              | Not Detected |
| Chloroform                       | 6.5             | Not Detected |
| 1,1,1-Trichloroethane            | 6.5             | Not Detected |
| Carbon Tetrachloride             | 6.5             | Not Detected |
| Benzene                          | 6.5             | 39           |
| 1,2-Dichloroethane               | 6.5             | Not Detected |
| Trichloroethene                  | 6.5             | Not Detected |
| 1,2-Dichloropropane              | 6.5             | Not Detected |
| Bromodichloromethane             | 6.5             | Not Detected |
| trans-1,3-Dichloropropene        | 6.5             | Not Detected |
| 4-Methyl-2-pentanone             | 13              | Not Detected |
| Toluene                          | 6.5             | 14           |
| cis-1,3-Dichloropropene          | 6.5             | Not Detected |
| 1,1,2-Trichloroethane            | 6.5             | Not Detected |
| Tetrachloroethene                | 6.5             | Not Detected |
| 2-Hexanone                       | 13              | Not Detected |
| Dibromochloromethane             | 6.5             | Not Detected |
| Chlorobenzene                    | 6.5             | Not Detected |
| Ethyl Benzene                    | 6.5             | 17           |
| m,p-Xylene                       | 6.5             | 32           |
| o-Xylene                         | 6.5             | 16           |
| Styrene                          | 6.5             | Not Detected |
| Bromoform                        | 6.5             | Not Detected |
| 1,1,2,2-Tetrachloroethane        | 6.5             | Not Detected |
| cis-1,2-Dichloroethene           | 6.5             | 9.2          |

### TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported

| Compound                                 | CAS Number | Match Quality | Amount (nG) |
|--|------------|---------------|-------------|
| Methane, dichlorodifluoro-               | 75-71-8    | 83 %          | 33          |
| Ethane, 1,2-dichloro-1,1,2,2-tetrafluoro | 76-14-2    | Manual ID     | 34          |
| Unknown                                  | NA         | NA            | 87          |

Container Type: VOST Tube

# AIR TOXICS LTD.

SAMPLE NAME : 7215 A&B

ID#: 9811284-09A

Modified VOST 5041A

| File Name | Sample ID | Date of Collection | Page |
|-----------|-----------|--------------------|------|
| File Name | Sample ID | Date of Analysis   | Page |

| Surrogates            | % Recovery | Method Limits |
|-----------------------|------------|---------------|
| 1,2-Dichloroethane-d4 | 98         | 69-112        |
| Toluene-d8            | 97         | 72-134        |
| 4-Bromofluorobenzene  | 103        | 78-119        |
| Dibromofluoromethane  | 95         | 70-130        |
| Benzene-d6            | 95         | 70-130        |

# AIR TOXICS LTD.

SAMPLE NAME : 7201A&B

ID#: 9811284-10A

Modified VOST 5041A

|                   |                              |
|-------------------|------------------------------|
| File Name: 372039 | Date of Collection: 11/16/98 |
| File Factor: 1    | Date of Analysis: 1/30/99    |

| Compound                         | Det. Limit (nG) | Amount (nG)  |
|----------------------------------|-----------------|--------------|
| Chloromethane                    | 13              | Not Detected |
| Vinyl Chloride                   | 6.5             | Not Detected |
| Bromomethane                     | 13              | Not Detected |
| Chloroethane                     | 6.5             | Not Detected |
| 1,1-Dichloroethene               | 6.5             | 6.4          |
| Carbon Disulfide                 | 6.5             | 22           |
| Acetone                          | 65              | Not Detected |
| Methylene Chloride               | 6.5             | Not Detected |
| trans-1,2-Dichloroethene         | 6.5             | 9.3          |
| 1,1-Dichloroethane               | 6.5             | Not Detected |
| Vinyl Acetate                    | 13              | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 65              | Not Detected |
| Chloroform                       | 6.5             | Not Detected |
| 1,1,1-Trichloroethane            | 6.5             | Not Detected |
| Carbon Tetrachloride             | 6.5             | Not Detected |
| Benzene                          | 6.5             | 42           |
| 1,2-Dichloroethane               | 6.5             | Not Detected |
| Trichloroethene                  | 6.5             | Not Detected |
| 1,2-Dichloropropane              | 6.5             | Not Detected |
| Bromodichloromethane             | 6.5             | Not Detected |
| trans-1,3-Dichloropropene        | 6.5             | Not Detected |
| 4-Methyl-2-pentanone             | 13              | Not Detected |
| Toluene                          | 6.5             | 14           |
| cis-1,3-Dichloropropene          | 6.5             | Not Detected |
| 1,1,2-Trichloroethane            | 6.5             | Not Detected |
| Tetrachloroethene                | 6.5             | Not Detected |
| 2-Hexanone                       | 13              | Not Detected |
| Dibromochloromethane             | 6.5             | Not Detected |
| Chlorobenzene                    | 6.5             | Not Detected |
| Ethyl Benzene                    | 6.5             | 13           |
| m,p-Xylene                       | 6.5             | 26           |
| o-Xylene                         | 6.5             | 11           |
| Styrene                          | 6.5             | Not Detected |
| Bromoform                        | 6.5             | Not Detected |
| 1,1,2,2-Tetrachloroethane        | 6.5             | Not Detected |
| cis-1,2-Dichloroethene           | 6.5             | 6.9          |

### TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported

| Compound                   | CAS Number | Match Quality | Amount (nG) |
|----------------------------|------------|---------------|-------------|
| Methane, dichlorodifluoro- | 75-71-8    | 83 %          | 32          |

Container Type: VOST Tube

| Surrogates | % Recovery | Method Limits |
|------------|------------|---------------|
|            |            |               |

# AIR TOXICS LTD.

SAMPLE NAME : Lab Blank

ID#: 9811284-11A

Modified VOST 5041A

|         |         |                    |          |
|---------|---------|--------------------|----------|
| Client  | 9811284 | Date of Collection | NA       |
| Lab Ref |         | Date of Analysis   | 12/23/88 |

| Surrogates            | % Recovery | Method Limits |
|-----------------------|------------|---------------|
| 1,2-Dichloroethane-d4 | 100        | 69-112        |
| Toluene-d8            | 95         | 72-134        |
| 4-Bromofluorobenzene  | 93         | 78-119        |
| Dibromofluoromethane  | 115        | 70-130        |

# AIR TOXICS LTD.

SAMPLE NAME : Lab Blank

ID#: 9811284-11B

Modified VOST 5041A

|                   |                            |
|-------------------|----------------------------|
| File Name: 981252 | Date of Collection: NA     |
| Det. Factor: 1    | Date of Analysis: 11/25/98 |

| Compound                         | Det. Limit (nG) | Amount (nG)  |
|----------------------------------|-----------------|--------------|
| Chloromethane                    | 10              | Not Detected |
| Vinyl Chloride                   | 5.0             | Not Detected |
| Bromomethane                     | 10              | 11           |
| Chloroethane                     | 5.0             | Not Detected |
| 1,1-Dichloroethene               | 5.0             | Not Detected |
| Carbon Disulfide                 | 5.0             | Not Detected |
| Acetone                          | 50              | Not Detected |
| Methylene Chloride               | 5.0             | Not Detected |
| trans-1,2-Dichloroethene         | 5.0             | Not Detected |
| 1,1-Dichloroethane               | 5.0             | Not Detected |
| Vinyl Acetate                    | 10              | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 50              | Not Detected |
| Chloroform                       | 5.0             | Not Detected |
| 1,1,1-Trichloroethane            | 5.0             | Not Detected |
| Carbon Tetrachloride             | 5.0             | Not Detected |
| Benzene                          | 5.0             | Not Detected |
| 1,2-Dichloroethane               | 5.0             | Not Detected |
| Trichloroethene                  | 5.0             | Not Detected |
| 1,2-Dichloropropane              | 5.0             | Not Detected |
| Bromodichloromethane             | 5.0             | Not Detected |
| trans-1,3-Dichloropropene        | 5.0             | Not Detected |
| 4-Methyl-2-pentanone             | 10              | Not Detected |
| Toluene                          | 5.0             | Not Detected |
| cis-1,3-Dichloropropene          | 5.0             | Not Detected |
| 1,1,2-Trichloroethane            | 5.0             | Not Detected |
| Tetrachloroethene                | 5.0             | Not Detected |
| 2-Hexanone                       | 10              | Not Detected |
| Dibromochloromethane             | 5.0             | Not Detected |
| Chlorobenzene                    | 5.0             | Not Detected |
| Ethyl Benzene                    | 5.0             | Not Detected |
| m,p-Xylene                       | 5.0             | Not Detected |
| o-Xylene                         | 5.0             | Not Detected |
| Styrene                          | 5.0             | Not Detected |
| Bromoform                        | 5.0             | Not Detected |
| 1,1,2,2-Tetrachloroethane        | 5.0             | Not Detected |
| cis-1,2-Dichloroethene           | 5.0             | Not Detected |

### TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported

| Compound        | CAS Number | Match Quality | Amount (nG) |
|-----------------|------------|---------------|-------------|
| None Identified |            |               |             |
| None Identified |            |               |             |

Q = Exceeds Quality Control limit

Container Type: NA

# AIR TOXICS LTD.

SAMPLE NAME : Lab Blank

ID#: 9811284-11B

Modified VOST 5041A

File Name: 23-957 Date of Collection: NA  
Director: SA Spec. Analysis: 12598

| Surrogates            | % Recovery | Method Limits |
|-----------------------|------------|---------------|
| 1,2-Dichloroethane-d4 | 126 Q      | 69-112        |
| Toluene-d8            | 92         | 72-134        |
| 4-Bromofluorobenzene  | 98         | 78-119        |
| Dibromofluoromethane  | 107        | 70-130        |

# AIR TOXICS LTD.

SAMPLE NAME : Lab Blank

ID#: 9811284-11C

Modified VOST 5041A

|            |             |                           |
|------------|-------------|---------------------------|
| File Name: | 9811284-11C | Date of Collection: NA    |
| File Path: | LT          | Date of Analysis: 7/20/98 |

| Compound                         | Det. Limit (nG) | Amount (nG)  |
|----------------------------------|-----------------|--------------|
| Chloromethane                    | 10              | Not Detected |
| Vinyl Chloride                   | 5.0             | Not Detected |
| Bromomethane                     | 10              | Not Detected |
| Chloroethane                     | 5.0             | Not Detected |
| 1,1-Dichloroethene               | 5.0             | Not Detected |
| Carbon Disulfide                 | 5.0             | Not Detected |
| Acetone                          | 50              | Not Detected |
| Methylene Chloride               | 5.0             | Not Detected |
| trans-1,2-Dichloroethene         | 5.0             | Not Detected |
| 1,1-Dichloroethane               | 5.0             | Not Detected |
| Vinyl Acetate                    | 10              | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 50              | Not Detected |
| Chloroform                       | 5.0             | Not Detected |
| 1,1,1-Trichloroethane            | 5.0             | Not Detected |
| Carbon Tetrachloride             | 5.0             | Not Detected |
| Benzene                          | 5.0             | Not Detected |
| 1,2-Dichloroethane               | 5.0             | Not Detected |
| Trichloroethene                  | 5.0             | Not Detected |
| 1,2-Dichloropropane              | 5.0             | Not Detected |
| Bromodichloromethane             | 5.0             | Not Detected |
| trans-1,3-Dichloropropene        | 5.0             | Not Detected |
| 4-Methyl-2-pentanone             | 10              | Not Detected |
| Toluene                          | 5.0             | Not Detected |
| cis-1,3-Dichloropropene          | 5.0             | Not Detected |
| 1,1,2-Trichloroethane            | 5.0             | Not Detected |
| Tetrachloroethene                | 5.0             | Not Detected |
| 2-Hexanone                       | 10              | Not Detected |
| Dibromochloromethane             | 5.0             | Not Detected |
| Chlorobenzene                    | 5.0             | Not Detected |
| Ethyl Benzene                    | 5.0             | Not Detected |
| m,p-Xylene                       | 5.0             | Not Detected |
| o-Xylene                         | 5.0             | Not Detected |
| Styrene                          | 5.0             | Not Detected |
| Bromoform                        | 5.0             | Not Detected |
| 1,1,2,2-Tetrachloroethane        | 5.0             | Not Detected |
| cis-1,2-Dichloroethene           | 5.0             | Not Detected |

### TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported

| Compound        | CAS Number | Match Quality | Amount (nG) |
|-----------------|------------|---------------|-------------|
| None Identified |            |               |             |

Container Type: NA

| Surrogates | % Recovery | Method Limits |
|------------|------------|---------------|
|            |            |               |

# AIR TOXICS LTD.

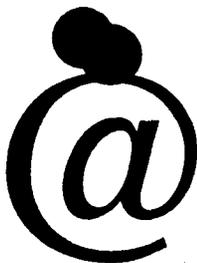
SAMPLE NAME : Lab Blank

ID#: 9811284-11C

Modified VOST 5041A

DATE: 11/13/88      Date of Collection: NA  
Lab: 111      Date of Analysis: 11/30/88

| Surrogates            | % Recovery | Method Limits |
|-----------------------|------------|---------------|
| 1,2-Dichloroethane-d4 | 114        | 69-112        |
| Toluene-d8            | 95         | 72-134        |
| 4-Bromofluorobenzene  | 97         | 78-119        |
| Dibromofluoromethane  | 104        | 70-130        |



# AIR TOXICS LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

180 BLUE RAVINE ROAD, SUITE B  
FOLSOM, CA 95630-4719  
(916) 985-1000 FAX: (916) 985-1020

## CHAIN-OF-CUSTODY RECORD

No 017839

Page 1 of 1

Contact Person Richard Grabowski  
 Company US Army Corps of Engineers  
 Address 215 N. 17th St. City Omaha State NE Zip 68102  
 Phone (402) 221-7784 FAX (402) 221-7769  
 Collected By: Signature Richard Grabowski

Project info:  
 P.O. # NIZ  
 Project # DACW45-99-P-0094  
 Project Name Himeco Dump Superfund Site

Turn Around Time:

Normal

Rush \_\_\_\_\_

Specify

| Lab I.D. | Field Sample I.D. | Date & Time   | Analyses Requested    | Canister Pressure / Vacuum |       |         |
|----------|-------------------|---------------|-----------------------|----------------------------|-------|---------|
|          |                   |               |                       | Initial                    | Final | Receipt |
| 01A/B    | 7205AEB           | 11/16/98 0700 | UOST 5041A/8260B/TICS | N/A                        | N/A   |         |
| 02A/B    | 7113AEB           | 11/16/98 0840 | UOST 5041A/8260B/TICS | N/A                        | N/A   |         |
| 03A/B    | 7116AEB           | 11/16/98 0857 | UOST 5041A/8260B/TICS | N/A                        | N/A   |         |
| 04A/B    | 7106AEB           | 11/16/98 0945 | UOST 5041A/8260B/TICS | N/A                        | N/A   |         |
| 05NB     | 7122AEB           | 11/16/98 1005 | UOST 5041A/8260B/TICS | N/A                        | N/A   |         |
| 06A/B    | 7104AEB           | 11/16/98 1039 | UOST 5041A/8260B/TICS | N/A                        | N/A   |         |
| 07A/B    | 7123AEB           | 11/16/98 1131 | UOST 5041A/8260B/TICS | N/A                        | N/A   |         |
| 08A/B    | 7203AEB           | 11/16/98 1414 | UOST 5041A/8260B/TICS | N/A                        | N/A   |         |
| 09A/B    | 7215AEB           | 11/16/98 1521 | UOST 5041A/8260B/TICS | N/A                        | N/A   |         |
| 10A/B    | 7221AEB           | 11/16/98 1610 | UOST 5041A/8260B/TICS | N/A                        | N/A   |         |

Relinquished By: (Signature) [Signature] Date/Time 11/16/98 1930 Print Name RICHARD J. GRABOWSKI  
 Relinquished By: (Signature) \_\_\_\_\_ Date/Time \_\_\_\_\_ Received By: (Signature) \_\_\_\_\_ Date/Time \_\_\_\_\_  
 Relinquished By: (Signature) \_\_\_\_\_ Date/Time \_\_\_\_\_ Received By: (Signature) [Signature] Date/Time 11/17/98 945

Notes:

| Lab Use Only | Shipper Name | Air Bill #   | Opened By | Date/Time | Temp. (°C) | Condition   | Custody Seals Intact?  | Work Order # |
|--------------|--------------|--------------|-----------|-----------|------------|-------------|--|--------------|
|              | Fed-Ex       | 809286251489 | TS        | 11/17/98  | 22         | on ice Good | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> None <input type="checkbox"/> N/A | 9811284      |

# @AIR TOXICS LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

## WORK ORDER #: 9811313

### Work Order Summary

**CLIENT:**

Mr. Steve Peterson  
U.S. Army Corps of Engineers  
215 N. 17th Street, Zorinsky Bldg.  
Omaha, NE 68102-4978

**BILL TO:** Same

**PHONE:**

402-221-7183

**P.O. #** NR

**FAX:**

402-221-7769

**PROJECT #** DACW45-99-P-0094 Himco Dump

**DATE RECEIVED:**

11/18/98

**DATE COMPLETED:**

12/4/98

**FRACTION #**

**NAME**

**TEST**

01A/B  
02A/B  
03A/B  
04A/B  
05A/B  
06A

7111 A&B  
7207 A&B  
7214 A&B  
7213 A&B  
7114 A&B  
Lab Blank

VOST 5041A/8260B/TIC's  
VOST 5041A/8260B/TIC's  
VOST 5041A/8260B/TIC's  
VOST 5041A/8260B/TIC's  
VOST 5041A/8260B/TIC's  
VOST 5041A/8260B/TIC's

CERTIFIED BY:



Laboratory Director

DATE:

12/4/98

Certification numbers: CA ELAP - 1149, NY ELAP - 11291, UT ELAP - E-217

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA 95630  
(916) 985-1000 • (800) 985-5955 • FAX (916) 985-1020

**LABORATORY NARRATIVE**  
**Analysis of Volatile Organic Compounds in VOST Cartridges**  
**by EPA 5041A/8260B**  
**U.S. Army Corps of Engineers**  
**Work Order #9811313**

Five Tenax and Tenax/charcoal tube pairs (VOST cartridges) were received on November 18, 1998. The sacrificial temperature check vial was not provided with the shipment, therefore the actual temperature of the shipment was not recorded. The samples were received on ice and therefore their integrity is not in question. The laboratory performed the analysis via EPA SW-846 Method 5041A using GC/MS in the full scan mode. The method involves thermal desorption of the VOST cartridges using an inert gas. The gas stream is then bubbled through 5 mL of organic free water and trapped on the sorbent trap of the purge and trap system. The trap is thermally desorbed to elute the components into the GC system for further separation. See the data sheets for the reporting limits for each compound.

Recovery of the LCS compound 11-DCE was slightly lower than the advisory QC limits of 70-130% in LCS analyzed on Nov 11, 1998.

Due to uncertainty of analyte concentrations, bag dilution was performed on all the samples.

There were no other out of the ordinary circumstances to report.

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:

- B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
- J - Estimated Value.
- E - Exceeds instrument calibration range.
- S - Saturated Peak.
- Q - Exceeds quality control limits.
- U - Compound analyzed for but not detected above the detection limit.
- N - The identification is based on presumptive evidence.

# AIR TOXICS LTD.

SAMPLE NAME : 7207 A&B

ID#: 9811313-02A/B

Modified VOST 5041A

|                    |         |                            |          |
|--------------------|---------|----------------------------|----------|
| <b>File Name:</b>  | 9113044 | <b>Date of Collection:</b> | 11/17/98 |
| <b>DIL Factor:</b> | 3.9     | <b>Date of Analysis:</b>   | 11/30/98 |

| Compound                         | Det. Limit (nG) | Amount (nG)  |
|----------------------------------|-----------------|--------------|
| Chloromethane                    | 39              | Not Detected |
| Vinyl Chloride                   | 20              | 380          |
| Bromomethane                     | 39              | Not Detected |
| Chloroethane                     | 20              | 58           |
| 1,1-Dichloroethene               | 20              | 38           |
| Carbon Disulfide                 | 20              | 210          |
| Acetone                          | 200             | Not Detected |
| Methylene Chloride               | 20              | Not Detected |
| trans-1,2-Dichloroethene         | 20              | 86           |
| 1,1-Dichloroethane               | 20              | 7700 E       |
| Vinyl Acetate                    | 39              | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 200             | Not Detected |
| Chloroform                       | 20              | Not Detected |
| 1,1,1-Trichloroethane            | 20              | Not Detected |
| Carbon Tetrachloride             | 20              | Not Detected |
| Benzene                          | 20              | 870          |
| 1,2-Dichloroethane               | 20              | 36           |
| Trichloroethene                  | 20              | 350          |
| 1,2-Dichloropropane              | 20              | 210          |
| Bromodichloromethane             | 20              | Not Detected |
| trans-1,3-Dichloropropene        | 20              | Not Detected |
| 4-Methyl-2-pentanone             | 39              | Not Detected |
| Toluene                          | 20              | 85           |
| cis-1,3-Dichloropropene          | 20              | Not Detected |
| 1,1,2-Trichloroethane            | 20              | Not Detected |
| Tetrachloroethene                | 20              | 36           |
| 2-Hexanone                       | 39              | Not Detected |
| Dibromochloromethane             | 20              | Not Detected |
| Chlorobenzene                    | 20              | 230          |
| Ethyl Benzene                    | 20              | 38           |
| m,p-Xylene                       | 20              | 96           |
| o-Xylene                         | 20              | 100          |
| Styrene                          | 20              | Not Detected |
| Bromoform                        | 20              | Not Detected |
| 1,1,2,2-Tetrachloroethane        | 20              | Not Detected |
| cis-1,2-Dichloroethene           | 20              | 190          |

### TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported

| Compound                           | CAS Number | Match Quality | Amount (nG) |
|------------------------------------|------------|---------------|-------------|
| Methane, dichlorodifluoro-         | 75-71-8    | 90 %          | 3200        |
| Methane, dichlorofluoro-           | 75-43-4    | 95 %          | 3700        |
| Ethyl ether                        | 60-29-7    | 90 %          | 1200        |
| Heptane, 2-methyl-                 | 592-27-8   | Manual ID     | 720         |
| Cyclohexane, 1,3-dimethyl-, cis-   | 638-04-0   | 91 %          | 1000        |
| Cyclohexane, 1,2-dimethyl-, trans- | 6876-23-9  | 94 %          | 820         |

# AIR TOXICS LTD.

SAMPLE NAME : 7207 A&B

ID#: 9811313-02A/B

Modified VOST 5041A

|              |         |                     |          |
|--------------|---------|---------------------|----------|
| File Name:   | 9113044 | Date of Collection: | 11/17/98 |
| Dil. Factor: | 3.9     | Date of Analysis:   | 11/30/98 |

| TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported |            |               |             |
|--|------------|---------------|-------------|
| Compound   | CAS Number | Match Quality | Amount (nG) |
| .alpha.-Pinene                                     | 80-56-8    | 96 %          | 980         |
| Benzene, 1-ethyl-3-methyl-                         | 620-14-4   | 80 %          | 590         |
| MENTH-1(8)-ENE                                     | 0-00-0     | 74 %          | 1800        |
| Benzene, (1-methylethyl)-                          | 98-82-8    | Manual ID     | 560         |

E = Exceeds instrument calibration range.

Q = Exceeds Quality Control limits.

Container Type: VOST Tube

| Surrogates            | % Recovery | Method Limits |
|-----------------------|------------|---------------|
| 1,2-Dichloroethane-d4 | 102        | 69-112        |
| Toluene-d8            | 98         | 72-134        |
| 4-Bromofluorobenzene  | 120 Q      | 78-119        |
| Dibromofluoromethane  | 96         | 70-130        |

# AIR TOXICS LTD.

SAMPLE NAME : 7214 A&B

ID#: 9811313-03A/B

Modified VOST 5041A

|              |         |                     |          |
|--------------|---------|---------------------|----------|
| File Name:   | 9113045 | Date of Collection: | 11/17/98 |
| Dil. Factor: | 15      | Date of Analysis:   | 11/30/98 |

| Compound                         | Det. Limit (nG) | Amount (nG)  |
|----------------------------------|-----------------|--------------|
| Chloromethane                    | 150             | Not Detected |
| Vinyl Chloride                   | 75              | Not Detected |
| Bromomethane                     | 150             | Not Detected |
| Chloroethane                     | 75              | 82           |
| 1,1-Dichloroethene               | 75              | Not Detected |
| Carbon Disulfide                 | 75              | 150          |
| Acetone                          | 750             | Not Detected |
| Methylene Chloride               | 75              | Not Detected |
| trans-1,2-Dichloroethene         | 75              | 150          |
| 1,1-Dichloroethane               | 75              | 200          |
| Vinyl Acetate                    | 150             | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 750             | Not Detected |
| Chloroform                       | 75              | Not Detected |
| 1,1,1-Trichloroethane            | 75              | Not Detected |
| Carbon Tetrachloride             | 75              | Not Detected |
| Benzene                          | 75              | 4600         |
| 1,2-Dichloroethane               | 75              | Not Detected |
| Trichloroethene                  | 75              | 190          |
| 1,2-Dichloropropane              | 75              | Not Detected |
| Bromodichloromethane             | 75              | Not Detected |
| trans-1,3-Dichloropropene        | 75              | Not Detected |
| 4-Methyl-2-pentanone             | 150             | Not Detected |
| Toluene                          | 75              | 440          |
| cis-1,3-Dichloropropene          | 75              | Not Detected |
| 1,1,2-Trichloroethane            | 75              | Not Detected |
| Tetrachloroethene                | 75              | Not Detected |
| 2-Hexanone                       | 150             | Not Detected |
| Dibromochloromethane             | 75              | Not Detected |
| Chlorobenzene                    | 75              | 390          |
| Ethyl Benzene                    | 75              | 480          |
| m,p-Xylene                       | 75              | 1400         |
| o-Xylene                         | 75              | 100          |
| Styrene                          | 75              | Not Detected |
| Bromoform                        | 75              | Not Detected |
| 1,1,2,2-Tetrachloroethane        | 75              | Not Detected |
| cis-1,2-Dichloroethene           | 75              | 200          |

### TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported

| Compound                             | CAS Number | Match Quality | Amount (nG) |
|--------------------------------------|------------|---------------|-------------|
| Hexane, 2-methyl-                    | 591-76-4   | Manual ID     | 12000       |
| Hexane, 3-methyl-                    | 589-34-4   | 86 %          | 14000       |
| 1-Butanol, 2-ethyl-                  | 97-95-0    | Manual ID     | 12000       |
| Heptane                              | 142-82-5   | 83 %          | 8700        |
| Cyclohexane, methyl-                 | 108-87-2   | 70 %          | 42000       |
| Acetic acid, trifluoro-, octyl ester | 2561-21-9  | Manual ID     | 12000       |

# AIR TOXICS LTD.

SAMPLE NAME : 7214 A&B

ID#: 9811313-03A/B

Modified VOST 5041A

|              |         |                     |          |
|--------------|---------|---------------------|----------|
| File Name:   | 9113045 | Date of Collection: | 11/17/98 |
| Dil. Factor: | 15      | Date of Analysis:   | 11/30/98 |

## TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported

| Compound                  | CAS Number | Match Quality | Amount (nG) |
|---------------------------|------------|---------------|-------------|
| Benzene, (1-methylethyl)- | 98-82-8    | 94 %          | 9900        |
| Benzene, propyl-          | 103-65-1   | 87 %          | 22000       |
| Benzene, 1,2,3-trimethyl- | 526-73-8   | 91 %          | 19000       |
| Benzene, 1,2,4-trimethyl- | 95-63-6    | 91 %          | 10000       |

Q = Exceeds Quality Control limits.

Container Type: VOST Tube

| Surrogates            | % Recovery | Method Limits |
|-----------------------|------------|---------------|
| 1,2-Dichloroethane-d4 | 105        | 69-112        |
| Toluene-d8            | 101        | 72-134        |
| 4-Bromofluorobenzene  | 218 Q      | 78-119        |
| Dibromofluoromethane  | 94         | 70-130        |

# AIR TOXICS LTD.

SAMPLE NAME : 7213 A&B

ID#: 9811313-04A/B

Modified VOST 5041A

|              |         |                     |          |
|--------------|---------|---------------------|----------|
| File Name:   | 9113046 | Date of Collection: | 11/17/98 |
| Dil. Factor: | 7.7     | Date of Analysis:   | 12/1/98  |

| Compound                         | Det. Limit (nG) | Amount (nG)  |
|----------------------------------|-----------------|--------------|
| Chloromethane                    | 77              | Not Detected |
| Vinyl Chloride                   | 39              | 1300         |
| Bromomethane                     | 77              | Not Detected |
| Chloroethane                     | 39              | Not Detected |
| 1,1-Dichloroethene               | 39              | Not Detected |
| Carbon Disulfide                 | 39              | 100          |
| Acetone                          | 390             | Not Detected |
| Methylene Chloride               | 39              | Not Detected |
| trans-1,2-Dichloroethene         | 39              | 97           |
| 1,1-Dichloroethane               | 39              | 1900         |
| Vinyl Acetate                    | 77              | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 390             | Not Detected |
| Chloroform                       | 39              | Not Detected |
| 1,1,1-Trichloroethane            | 39              | Not Detected |
| Carbon Tetrachloride             | 39              | Not Detected |
| Benzene                          | 39              | 4000         |
| 1,2-Dichloroethane               | 39              | Not Detected |
| Trichloroethene                  | 39              | 290          |
| 1,2-Dichloropropane              | 39              | 380          |
| Bromodichloromethane             | 39              | Not Detected |
| trans-1,3-Dichloropropene        | 39              | Not Detected |
| 4-Methyl-2-pentanone             | 77              | Not Detected |
| Toluene                          | 39              | 120          |
| cis-1,3-Dichloropropene          | 39              | Not Detected |
| 1,1,2-Trichloroethane            | 39              | Not Detected |
| Tetrachloroethene                | 39              | Not Detected |
| 2-Hexanone                       | 77              | Not Detected |
| Dibromochloromethane             | 39              | Not Detected |
| Chlorobenzene                    | 39              | Not Detected |
| Ethyl Benzene                    | 39              | Not Detected |
| m,p-Xylene                       | 39              | 51           |
| o-Xylene                         | 39              | Not Detected |
| Styrene                          | 39              | Not Detected |
| Bromoform                        | 39              | Not Detected |
| 1,1,2,2-Tetrachloroethane        | 39              | Not Detected |
| cis-1,2-Dichloroethene           | 39              | 370          |

### TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported

| Compound                                 | CAS Number | Match Quality | Amount (nG) |
|--|------------|---------------|-------------|
| 2-Butenal, (E)-                          | 123-73-9   | Manual ID     | 20000       |
| Ethane, 1,2-dichloro-1,1,2,2-tetrafluoro | 76-14-2    | Manual ID     | 21000       |
| Butane                                   | 106-97-8   | Manual ID     | 16000       |
| Unknown                                  | NA         | NA            | 7400        |
| Pentane                                  | 109-66-0   | 80 %          | 6600        |
| Hexane                                   | 110-54-3   | 90 %          | 2200        |

# AIR TOXICS LTD.

SAMPLE NAME : 7213 A&B

ID#: 9811313-04A/B

Modified VOST 5041A

|              |         |                     |          |
|--------------|---------|---------------------|----------|
| File Name:   | 9113046 | Date of Collection: | 11/17/98 |
| Dil. Factor: | 7.7     | Date of Analysis:   | 12/1/98  |

| TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported |            |               |             |
|--|------------|---------------|-------------|
| Compound   | CAS Number | Match Quality | Amount (nG) |
| Hexane, 2,2-dimethyl-                              | 590-73-8   | 72 %          | 6300        |
| Octane   | 111-65-9   | Manual ID     | 1300        |
| Bicyclo[2.2.1]heptane, 1,7,7-trimethyl-            | 464-15-3   | Manual ID     | 3700        |
| Bicyclo[2.2.1]heptane, 2,2,3-trimethyl-            | 20536-41-8 | 97 %          | 11000       |

Q = Exceeds Quality Control limits.

Container Type: VOST Tube

| Surrogates            | % Recovery | Method Limits |
|-----------------------|------------|---------------|
| 1,2-Dichloroethane-d4 | 96         | 69-112        |
| Toluene-d8            | 98         | 72-134        |
| 4-Bromofluorobenzene  | 122 Q      | 78-119        |
| Dibromofluoromethane  | 95         | 70-130        |

# AIR TOXICS LTD.

SAMPLE NAME : 7114 A&B

ID#: 9811313-05A/B

Modified VOST 5041A

|              |         |                     |          |
|--------------|---------|---------------------|----------|
| File Name:   | 9113049 | Date of Collection: | 11/17/98 |
| Dil. Factor: | 19      | Date of Analysis:   | 12/1/98  |

| Compound                         | Det. Limit (nG) | Amount (nG)  |
|----------------------------------|-----------------|--------------|
| Chloromethane                    | 190             | Not Detected |
| Vinyl Chloride                   | 95              | 4800         |
| Bromomethane                     | 190             | Not Detected |
| Chloroethane                     | 95              | 120          |
| 1,1-Dichloroethene               | 95              | Not Detected |
| Carbon Disulfide                 | 95              | 620          |
| Acetone                          | 950             | Not Detected |
| Methylene Chloride               | 95              | Not Detected |
| trans-1,2-Dichloroethene         | 95              | 440          |
| 1,1-Dichloroethane               | 95              | 1000         |
| Vinyl Acetate                    | 190             | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 950             | Not Detected |
| Chloroform                       | 95              | Not Detected |
| 1,1,1-Trichloroethane            | 95              | Not Detected |
| Carbon Tetrachloride             | 95              | Not Detected |
| Benzene                          | 95              | 15000        |
| 1,2-Dichloroethane               | 95              | Not Detected |
| Trichloroethene                  | 95              | 920          |
| 1,2-Dichloropropane              | 95              | Not Detected |
| Bromodichloromethane             | 95              | Not Detected |
| trans-1,3-Dichloropropene        | 95              | Not Detected |
| 4-Methyl-2-pentanone             | 190             | Not Detected |
| Toluene                          | 95              | 4000         |
| cis-1,3-Dichloropropene          | 95              | Not Detected |
| 1,1,2-Trichloroethane            | 95              | Not Detected |
| Tetrachloroethene                | 95              | 8000         |
| 2-Hexanone                       | 190             | Not Detected |
| Dibromochloromethane             | 95              | Not Detected |
| Chlorobenzene                    | 95              | Not Detected |
| Ethyl Benzene                    | 95              | 22000 E      |
| m,p-Xylene                       | 95              | 19000        |
| o-Xylene                         | 95              | 7200         |
| Styrene                          | 95              | Not Detected |
| Bromoform                        | 95              | Not Detected |
| 1,1,2,2-Tetrachloroethane        | 95              | Not Detected |
| cis-1,2-Dichloroethene           | 95              | 810          |

### TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported

| Compound                                 | CAS Number | Match Quality | Amount (nG) |
|--|------------|---------------|-------------|
| Ethane, 1,2-dichloro-1,1,2,2-tetrafluoro | 76-14-2    | Manual ID     | 14000       |
| Cyclopentane, 1,2-dimethyl-, trans-      | 822-50-4   | 95 %          | 6300        |
| Cyclohexane, methyl-                     | 108-87-2   | 87 %          | 7900        |
| Octane                                   | 111-65-9   | 91 %          | 9500        |
| Cyclohexane, ethyl-                      | 1678-91-7  | Manual ID     | 9200        |
| Heptane, 2,4-dimethyl-                   | 2213-23-2  | 72 %          | 4600        |

# AIR TOXICS LTD.

SAMPLE NAME : 7114 A&B

ID#: 9811313-05A/B

Modified VOST 5041A

|              |         |                     |          |
|--------------|---------|---------------------|----------|
| File Name:   | 9113049 | Date of Collection: | 11/17/98 |
| Dil. Factor: | 19      | Date of Analysis:   | 12/1/98  |

## TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported

| Compound                  | CAS Number | Match Quality | Amount (nG) |
|---------------------------|------------|---------------|-------------|
| Nonane                    | 111-84-2   | 91 %          | 4300        |
| Nonane, 3-methyl-         | 5911-04-6  | Manual ID     | 9800        |
| Benzene, (1-methylethyl)- | 98-82-8    | 91 %          | 11000       |
| Heptane, 2,3,6-trimethyl- | 4032-93-3  | Manual ID     | 9200        |

E = Exceeds instrument calibration range.

Container Type: VOST Tube

| Surrogates            | % Recovery | Method Limits |
|-----------------------|------------|---------------|
| 1,2-Dichloroethane-d4 | 96         | 69-112        |
| Toluene-d8            | 104        | 72-134        |
| 4-Bromofluorobenzene  | 109        | 78-119        |
| Dibromofluoromethane  | 99         | 70-130        |

# AIR TOXICS LTD.

SAMPLE NAME : Lab Blank

ID#: 9811313-06A

Modified VOST 5041A

|              |         |                     |          |
|--------------|---------|---------------------|----------|
| File Name:   | 9113033 | Date of Collection: | NA       |
| Dil. Factor: | 1.0     | Date of Analysis:   | 11/30/98 |

| Compound                         | Det. Limit (nG) | Amount (nG)  |
|----------------------------------|-----------------|--------------|
| Chloromethane                    | 10              | Not Detected |
| Vinyl Chloride                   | 5.0             | Not Detected |
| Bromomethane                     | 10              | Not Detected |
| Chloroethane                     | 5.0             | Not Detected |
| 1,1-Dichloroethene               | 5.0             | Not Detected |
| Carbon Disulfide                 | 5.0             | Not Detected |
| Acetone                          | 50              | Not Detected |
| Methylene Chloride               | 5.0             | Not Detected |
| trans-1,2-Dichloroethene         | 5.0             | Not Detected |
| 1,1-Dichloroethane               | 5.0             | Not Detected |
| Vinyl Acetate                    | 10              | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 50              | Not Detected |
| Chloroform                       | 5.0             | Not Detected |
| 1,1,1-Trichloroethane            | 5.0             | Not Detected |
| Carbon Tetrachloride             | 5.0             | Not Detected |
| Benzene                          | 5.0             | Not Detected |
| 1,2-Dichloroethane               | 5.0             | Not Detected |
| Trichloroethene                  | 5.0             | Not Detected |
| 1,2-Dichloropropane              | 5.0             | Not Detected |
| Bromodichloromethane             | 5.0             | Not Detected |
| trans-1,3-Dichloropropene        | 5.0             | Not Detected |
| 4-Methyl-2-pentanone             | 10              | Not Detected |
| Toluene                          | 5.0             | Not Detected |
| cis-1,3-Dichloropropene          | 5.0             | Not Detected |
| 1,1,2-Trichloroethane            | 5.0             | Not Detected |
| Tetrachloroethene                | 5.0             | Not Detected |
| 2-Hexanone                       | 10              | Not Detected |
| Dibromochloromethane             | 5.0             | Not Detected |
| Chlorobenzene                    | 5.0             | Not Detected |
| Ethyl Benzene                    | 5.0             | Not Detected |
| m,p-Xylene                       | 5.0             | Not Detected |
| o-Xylene                         | 5.0             | Not Detected |
| Styrene                          | 5.0             | Not Detected |
| Bromoform                        | 5.0             | Not Detected |
| 1,1,2,2-Tetrachloroethane        | 5.0             | Not Detected |
| cis-1,2-Dichloroethene           | 5.0             | Not Detected |

**TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported**

| Compound        | CAS Number | Match Quality | Amount (nG) |
|-----------------|------------|---------------|-------------|
| None Identified |            |               |             |
| None Identified |            |               |             |

Q = Exceeds Quality Control limits.

Container Type: NA

# AIR TOXICS LTD.

SAMPLE NAME : Lab Blank

ID#: 9811313-06A

Modified VOST 5041A

|              |         |                     |          |
|--------------|---------|---------------------|----------|
| File Name:   | 9113033 | Date of Collection: | NA       |
| Dil. Factor: | 1.0     | Date of Analysis:   | 11/30/98 |

| Surrogates            | % Recovery | Method Limits |
|-----------------------|------------|---------------|
| 1,2-Dichloroethane-d4 | 114 Q      | 69-112        |
| Toluene-d8            | 95         | 72-134        |
| 4-Bromofluorobenzene  | 97         | 78-119        |
| Dibromofluoromethane  | 104        | 70-130        |



# AIR TOXICS LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

180 BLUE RAVINE ROAD, SUITE B  
FOLSOM, CA 95630-4719  
(916) 985-1000 FAX: (916) 985-1020

**No 017841**

Page 1 of 1

## CHAIN-OF-CUSTODY RECORD

|  |  |   |
|--|--|---|
| Contact Person <u>Richard Grabowski</u><br>Company <u>US Army Corps of Engineers</u><br>Address <u>215 N. 17th St.</u> City <u>Omaha</u> State <u>NE</u> Zip <u>68102</u><br>Phone <u>(402) 221-7784</u> FAX <u>(402) 221-7769</u><br>Collected By: Signature <u>Richard Grabowski</u> | Project info:<br>P.O. # <u>NR</u><br>Project # <u>DRAW 45-99-P-0094</u><br>Project Name <u>Hinco Dump Superfund Site</u> | Turn Around Time:<br><input checked="" type="checkbox"/> Normal<br><input type="checkbox"/> Rush _____<br>Specify _____ |
|--|--|---|

| Lab I.D. | Field Sample I.D. | Date & Time   | Analyses Requested    | Canister Pressure / Vacuum |       |         |
|----------|-------------------|---------------|-----------------------|----------------------------|-------|---------|
|          |                   |               |                       | Initial                    | Final | Receipt |
| 01A/B    | 7111 AEB          | 11/17/98 0700 | UOST 5041A/8260B/TICS | N/A                        | N/A   |         |
| 02A/B    | 7207 AEB          | 11/17/98 0819 | UOST 5041A/8260B/TICS | N/A                        | N/A   |         |
| 03A/B    | 7214 AEB          | 11/17/98 0919 | UOST 5041A/8260B/TICS | N/A                        | N/A   |         |
| 04A/B    | 7213 AEB          | 11/17/98 1042 | UOST 5041A/8260B/TICS | N/A                        | N/A   |         |
| 05A/B    | 7114 AEB          | 11/17/98 1256 | UOST 5041A/8260B/TICS | N/A                        | N/A   |         |
|          |                   |               |                       |                            |       |         |
|          |                   |               |                       |                            |       |         |
|          |                   |               |                       |                            |       |         |
|          |                   |               |                       |                            |       |         |

|  |  |
|--|--|
| Relinquished By: (Signature) <u>[Signature]</u> Date/Time <u>11/17/98 1700</u> | Print Name <u>RICHARD J. GRABOWSKI</u>                                     |
| Relinquished By: (Signature) _____ Date/Time _____                             | Received By: (Signature) _____ Date/Time _____                             |
| Relinquished By: (Signature) _____ Date/Time _____                             | Received By: (Signature) <u>[Signature]</u> Date/Time <u>11/18/98 1400</u> |

Notes:

|              |                            |                                |                      |                                |                       |                       |                                  |                             |
|--------------|----------------------------|--------------------------------|----------------------|--------------------------------|-----------------------|-----------------------|----------------------------------|-----------------------------|
| Lab Use Only | Shipper Name <u>fed-ek</u> | Air Bill # <u>809286251978</u> | Opened By: <u>TS</u> | Date/Time <u>11/18/98 1400</u> | Temp. (°C) <u>ice</u> | Condition <u>Good</u> | Custody Seals Intact? <u>Yes</u> | Work Order # <u>9811313</u> |
|--------------|----------------------------|--------------------------------|----------------------|--------------------------------|-----------------------|-----------------------|----------------------------------|-----------------------------|

# @AIR TOXICS LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

## WORK ORDER #: 9812153

### Work Order Summary

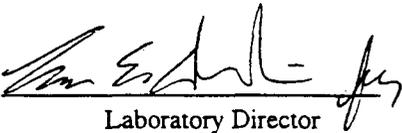
**CLIENT:** Mr. Steve Peterson  
U.S. Army Corps of Engineers  
215 N. 17th Street, Zorinsky Bldg.  
Omaha, NE 68102-4978

**BILL TO:** Same

**PHONE:** 402-221-7183  
**FAX:** 402-221-7769  
**DATE RECEIVED:** 12/10/98  
**DATE COMPLETED:** 12/15/98

**P.O. #** NR  
**PROJECT #** DACW45-99-P-0094 Himco Dump

| <u>FRACTION #</u> | <u>NAME</u> | <u>TEST</u>            |
|-------------------|-------------|------------------------|
| 01A/B             | 7705 A&B    | VOST 5041A/8260B/TIC's |
| 02A/B             | 7706 A&B    | VOST 5041A/8260B/TIC's |
| 03A/B             | 7703 A&B    | VOST 5041A/8260B/TIC's |
| 04A/B             | 7708 A&B    | VOST 5041A/8260B/TIC's |
| 05A/B             | 7709 A&B    | VOST 5041A/8260B/TIC's |
| 06A               | Lab Blank   | VOST 5041A/8260B/TIC's |

CERTIFIED BY: 

Laboratory Director

DATE: 12/15/98

Certification numbers: CA ELAP - 1149, NY ELAP - 11291, UT ELAP - E-217

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA 95630  
(916) 985-1000 • (800) 985-5955 • FAX (916) 985-1020

**LABORATORY NARRATIVE**  
**Analysis of Volatile Organic Compounds in VOST Cartridges**  
**by EPA 5041A/8260B**  
**U.S. Army Corps of Engineers**  
**Work Order #9812153**

Five Tenax and Tenax/charcoal tube pairs (VOST cartridges) were received on December 10, 1998. The sacrificial temperature check vial was not provided with the shipment, therefore the actual temperature of the shipment was not recorded. The samples were received on ice and therefore their integrity is not in question. The laboratory performed the analysis via EPA SW-846 Method 5041A using GC/MS in the full scan mode. The method involves thermal desorption of the VOST cartridges for 11 min. at 180° C using an inert gas. The gas stream is then bubbled through 5 mL of organic free water and trapped on the sorbent trap of the purge and trap system. The trap is thermally desorbed to elute the components into the GC system for further separation. See the data sheets for the reporting limits for each compound.

Bromomethane was detected in the laboratory blank. The "B" flag was applied to the associated results.

Bag dilution was performed on the first sample 7705A&B to screen the sample.

Recovery of the surrogate compound 1,2-Dichloroethane-d4 was slightly above the laboratory established limits of 69-112% in the following samples: 7705 A&B, 7703 A&B, 7708 A&B, 7709 A&B, Lab Blank and LCS. Surrogate recovery of 4-Bromofluorobenzene was above the laboratory established limit of 78-119% in sample 7708 A&B.

There were no other out of the ordinary circumstances to report.

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:

- B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
- J - Estimated Value.
- E - Exceeds instrument calibration range.
- S - Saturated Peak.
- Q - Exceeds quality control limits.
- U - Compound analyzed for but not detected above the detection limit.
- N - The identification is based on presumptive evidence.

# AIR TOXICS LTD.

SAMPLE NAME : 7705 A&B

ID#: 9812153-01A/B

Modified VOST 5041A

|              |         |                              |
|--------------|---------|------------------------------|
| File Name:   | 9121109 | Date of Collection: 12/ 9/98 |
| Dil. Factor: | 1.3     | Date of Analysis: 12/11/98   |

| Compound                         | Det. Limit (nG) | Amount (nG)  |
|----------------------------------|-----------------|--------------|
| Chloromethane                    | 13              | Not Detected |
| Vinyl Chloride                   | 6.5             | Not Detected |
| Bromomethane                     | 13              | 23 B         |
| Chloroethane                     | 6.5             | Not Detected |
| 1,1-Dichloroethene               | 6.5             | Not Detected |
| Carbon Disulfide                 | 6.5             | Not Detected |
| Acetone                          | 65              | Not Detected |
| Methylene Chloride               | 6.5             | Not Detected |
| trans-1,2-Dichloroethene         | 6.5             | Not Detected |
| 1,1-Dichloroethane               | 6.5             | Not Detected |
| Vinyl Acetate                    | 13              | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 65              | Not Detected |
| Chloroform                       | 6.5             | Not Detected |
| 1,1,1-Trichloroethane            | 6.5             | Not Detected |
| Carbon Tetrachloride             | 6.5             | Not Detected |
| Benzene                          | 6.5             | 46           |
| 1,2-Dichloroethane               | 6.5             | Not Detected |
| Trichloroethene                  | 6.5             | Not Detected |
| 1,2-Dichloropropane              | 6.5             | Not Detected |
| Bromodichloromethane             | 6.5             | Not Detected |
| trans-1,3-Dichloropropene        | 6.5             | Not Detected |
| 4-Methyl-2-pentanone             | 13              | Not Detected |
| Toluene                          | 6.5             | 17           |
| cis-1,3-Dichloropropene          | 6.5             | Not Detected |
| 1,1,2-Trichloroethane            | 6.5             | Not Detected |
| Tetrachloroethene                | 6.5             | Not Detected |
| 2-Hexanone                       | 13              | Not Detected |
| Dibromochloromethane             | 6.5             | Not Detected |
| Chlorobenzene                    | 6.5             | Not Detected |
| Ethyl Benzene                    | 6.5             | Not Detected |
| m,p-Xylene                       | 6.5             | 16           |
| o-Xylene                         | 6.5             | Not Detected |
| Styrene                          | 6.5             | Not Detected |
| Bromoform                        | 6.5             | Not Detected |
| 1,1,2,2-Tetrachloroethane        | 6.5             | Not Detected |
| cis-1,2-Dichloroethene           | 6.5             | Not Detected |

### TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported

| Compound        | CAS Number | Match Quality | Amount (nG) |
|-----------------|------------|---------------|-------------|
| None Identified |            |               |             |
| None Identified |            |               |             |

B = Compound present in laboratory blank, background subtraction not performed.

Q = Exceeds Quality Control limits.

# AIR TOXICS LTD.

ID#: 9812153-01A/B

|                     |         |                            |          |
|---------------------|---------|----------------------------|----------|
| <b>File Name:</b>   | 9121109 | <b>Date of Collection:</b> | 12/9/98  |
| <b>Dil. Factor:</b> | 1.3     | <b>Date of Analysis:</b>   | 12/11/98 |

Container Type: VOST Tube

| Surrogates            | % Recovery | Method Limits |
|-----------------------|------------|---------------|
| 1,2-Dichloroethane-d4 | 115 Q      | 69-112        |
| Toluene-d8            | 99         | 72-134        |
| 4-Bromofluorobenzene  | 108        | 78-119        |
| Dibromofluoromethane  | 94         | 70-130        |
| Benzene-d6            | 74         | 70-130        |

# AIR TOXICS LTD.

SAMPLE NAME : 7706 A&B

ID#: 9812153-02A/B

Modified VOST 5041A

|              |         |                     |          |
|--------------|---------|---------------------|----------|
| File Name:   | 9121106 | Date of Collection: | 12/9/98  |
| Dil. Factor: | 1.0     | Date of Analysis:   | 12/11/98 |

| Compound                         | Det. Limit (nG) | Amount (nG)  |
|----------------------------------|-----------------|--------------|
| Chloromethane                    | 10              | Not Detected |
| Vinyl Chloride                   | 5.0             | Not Detected |
| Bromomethane                     | 10              | Not Detected |
| Chloroethane                     | 5.0             | Not Detected |
| 1,1-Dichloroethene               | 5.0             | Not Detected |
| Carbon Disulfide                 | 5.0             | 28           |
| Acetone                          | 50              | Not Detected |
| Methylene Chloride               | 5.0             | Not Detected |
| trans-1,2-Dichloroethene         | 5.0             | Not Detected |
| 1,1-Dichloroethane               | 5.0             | Not Detected |
| Vinyl Acetate                    | 10              | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 50              | Not Detected |
| Chloroform                       | 5.0             | Not Detected |
| 1,1,1-Trichloroethane            | 5.0             | Not Detected |
| Carbon Tetrachloride             | 5.0             | Not Detected |
| Benzene                          | 5.0             | Not Detected |
| 1,2-Dichloroethane               | 5.0             | Not Detected |
| Trichloroethene                  | 5.0             | Not Detected |
| 1,2-Dichloropropane              | 5.0             | Not Detected |
| Bromodichloromethane             | 5.0             | Not Detected |
| trans-1,3-Dichloropropene        | 5.0             | Not Detected |
| 4-Methyl-2-pentanone             | 10              | Not Detected |
| Toluene                          | 5.0             | 10           |
| cis-1,3-Dichloropropene          | 5.0             | Not Detected |
| 1,1,2-Trichloroethane            | 5.0             | Not Detected |
| Tetrachloroethene                | 5.0             | 17           |
| 2-Hexanone                       | 10              | Not Detected |
| Dibromochloromethane             | 5.0             | Not Detected |
| Chlorobenzene                    | 5.0             | Not Detected |
| Ethyl Benzene                    | 5.0             | Not Detected |
| m,p-Xylene                       | 5.0             | Not Detected |
| o-Xylene                         | 5.0             | Not Detected |
| Styrene                          | 5.0             | Not Detected |
| Bromoform                        | 5.0             | Not Detected |
| 1,1,2,2-Tetrachloroethane        | 5.0             | Not Detected |
| cis-1,2-Dichloroethene           | 5.0             | Not Detected |

### TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported

| Compound                                 | CAS Number | Match Quality | Amount (nG) |
|--|------------|---------------|-------------|
| Butane, 1,1,3,4-tetrachloro-1,2,2,3,4,4- | 423-38-1   | Manual ID     | 200         |
| Methane, trichlorofluoro-                | 75-69-4    | 90 %          | 27          |
| Nonanal                                  | 124-19-6   | 74 %          | 64          |

Container Type: VOST Tube

# AIR TOXICS LTD.

SAMPLE NAME : 7706 A&B

ID#: 9812153-02A/B

Modified VOST 5041A

|                     |         |                            |          |
|---------------------|---------|----------------------------|----------|
| <b>File Name:</b>   | 9121106 | <b>Date of Collection:</b> | 12/9/98  |
| <b>Dil. Factor:</b> | 1.0     | <b>Date of Analysis:</b>   | 12/11/98 |

| Surrogates            | % Recovery | Method Limits |
|-----------------------|------------|---------------|
| 1,2-Dichloroethane-d4 | 105        | 69-112        |
| Toluene-d8            | 102        | 72-134        |
| 4-Bromofluorobenzene  | 105        | 78-119        |
| Dibromofluoromethane  | 113        | 70-130        |

# AIR TOXICS LTD.

SAMPLE NAME : 7703 A&B

ID#: 9812153-03A/B

Modified VOST 5041A

|                     |         |                                     |
|---------------------|---------|-------------------------------------|
| <b>File Name:</b>   | 9121107 | <b>Date of Collection:</b> 12/ 9/98 |
| <b>Dil. Factor:</b> | 1.0     | <b>Date of Analysis:</b> 12/11/98   |

| Compound                         | Det. Limit (nG) | Amount (nG)  |
|----------------------------------|-----------------|--------------|
| Chloromethane                    | 10              | Not Detected |
| Vinyl Chloride                   | 5.0             | Not Detected |
| Bromomethane                     | 10              | Not Detected |
| Chloroethane                     | 5.0             | Not Detected |
| 1,1-Dichloroethene               | 5.0             | Not Detected |
| Carbon Disulfide                 | 5.0             | Not Detected |
| Acetone                          | 50              | Not Detected |
| Methylene Chloride               | 5.0             | Not Detected |
| trans-1,2-Dichloroethene         | 5.0             | Not Detected |
| 1,1-Dichloroethane               | 5.0             | Not Detected |
| Vinyl Acetate                    | 10              | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 50              | Not Detected |
| Chloroform                       | 5.0             | Not Detected |
| 1,1,1-Trichloroethane            | 5.0             | 7.3          |
| Carbon Tetrachloride             | 5.0             | Not Detected |
| Benzene                          | 5.0             | Not Detected |
| 1,2-Dichloroethane               | 5.0             | Not Detected |
| Trichloroethene                  | 5.0             | Not Detected |
| 1,2-Dichloropropane              | 5.0             | Not Detected |
| Bromodichloromethane             | 5.0             | Not Detected |
| trans-1,3-Dichloropropene        | 5.0             | Not Detected |
| 4-Methyl-2-pentanone             | 10              | Not Detected |
| Toluene                          | 5.0             | 5.2          |
| cis-1,3-Dichloropropene          | 5.0             | Not Detected |
| 1,1,2-Trichloroethane            | 5.0             | Not Detected |
| Tetrachloroethene                | 5.0             | 60           |
| 2-Hexanone                       | 10              | Not Detected |
| Dibromochloromethane             | 5.0             | Not Detected |
| Chlorobenzene                    | 5.0             | Not Detected |
| Ethyl Benzene                    | 5.0             | Not Detected |
| m,p-Xylene                       | 5.0             | Not Detected |
| o-Xylene                         | 5.0             | Not Detected |
| Styrene                          | 5.0             | Not Detected |
| Bromoform                        | 5.0             | Not Detected |
| 1,1,2,2-Tetrachloroethane        | 5.0             | Not Detected |
| cis-1,2-Dichloroethene           | 5.0             | Not Detected |

### TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported

| Compound                                 | CAS Number | Match Quality | Amount (nG) |
|--|------------|---------------|-------------|
| Ethane, 1,2-dichloro-1,1,2,2-tetrafluoro | 76-14-2    | 86 %          | 810         |
| Methane, trichlorofluoro-                | 75-69-4    | 90 %          | 57          |
| Nonanal                                  | 124-19-6   | 72 %          | 38          |

Q = Exceeds Quality Control limits.

# AIR TOXICS LTD.

ID#: 9812153-03A/B

|              |         |                     |          |
|--------------|---------|---------------------|----------|
| File Name:   | 9121107 | Date of Collection: | 12/9/98  |
| Dil. Factor: | 1.0     | Date of Analysis:   | 12/11/98 |

Container Type: VOST Tube

| Surrogates            | % Recovery | Method Limits |
|-----------------------|------------|---------------|
| 1,2-Dichloroethane-d4 | 116 Q      | 69-112        |
| Toluene-d8            | 97         | 72-134        |
| 4-Bromofluorobenzene  | 96         | 78-119        |
| Dibromofluoromethane  | 119        | 70-130        |

# AIR TOXICS LTD.

SAMPLE NAME : 7708 A&B

ID#: 9812153-04A/B

Modified VOST 5041A

|                     |         |                            |          |
|---------------------|---------|----------------------------|----------|
| <b>File Name:</b>   | 9121108 | <b>Date of Collection:</b> | 12/9/98  |
| <b>Dil. Factor:</b> | 1.0     | <b>Date of Analysis:</b>   | 12/11/98 |

| Compound                         | Det. Limit (nG) | Amount (nG)  |
|----------------------------------|-----------------|--------------|
| Chloromethane                    | 10              | Not Detected |
| Vinyl Chloride                   | 5.0             | Not Detected |
| Bromomethane                     | 10              | Not Detected |
| Chloroethane                     | 5.0             | Not Detected |
| 1,1-Dichloroethene               | 5.0             | Not Detected |
| Carbon Disulfide                 | 5.0             | 14           |
| Acetone                          | 50              | Not Detected |
| Methylene Chloride               | 5.0             | Not Detected |
| trans-1,2-Dichloroethene         | 5.0             | Not Detected |
| 1,1-Dichloroethane               | 5.0             | Not Detected |
| Vinyl Acetate                    | 10              | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 50              | Not Detected |
| Chloroform                       | 5.0             | Not Detected |
| 1,1,1-Trichloroethane            | 5.0             | 19           |
| Carbon Tetrachloride             | 5.0             | Not Detected |
| Benzene                          | 5.0             | Not Detected |
| 1,2-Dichloroethane               | 5.0             | Not Detected |
| Trichloroethene                  | 5.0             | Not Detected |
| 1,2-Dichloropropane              | 5.0             | Not Detected |
| Bromodichloromethane             | 5.0             | Not Detected |
| trans-1,3-Dichloropropene        | 5.0             | Not Detected |
| 4-Methyl-2-pentanone             | 10              | Not Detected |
| Toluene                          | 5.0             | 9.3          |
| cis-1,3-Dichloropropene          | 5.0             | Not Detected |
| 1,1,2-Trichloroethane            | 5.0             | Not Detected |
| Tetrachloroethene                | 5.0             | 2900 E       |
| 2-Hexanone                       | 10              | Not Detected |
| Dibromochloromethane             | 5.0             | Not Detected |
| Chlorobenzene                    | 5.0             | Not Detected |
| Ethyl Benzene                    | 5.0             | Not Detected |
| m,p-Xylene                       | 5.0             | Not Detected |
| o-Xylene                         | 5.0             | Not Detected |
| Styrene                          | 5.0             | Not Detected |
| Bromoform                        | 5.0             | Not Detected |
| 1,1,2,2-Tetrachloroethane        | 5.0             | Not Detected |
| cis-1,2-Dichloroethene           | 5.0             | Not Detected |

### TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported

| Compound                                 | CAS Number | Match Quality | Amount (nG) |
|--|------------|---------------|-------------|
| Methane, dichlorodifluoro-               | 75-71-8    | 91 %          | 3500        |
| Ethane, 1,2-dichloro-1,1,2,2-tetrafluoro | 76-14-2    | 72 %          | 7800        |
| Methane, trichlorofluoro-                | 75-69-4    | 90 %          | 100         |
| .alpha.-Pinene                           | 80-56-8    | 96 %          | 440         |
| Bicyclo[4.1.0]hept-2-ene, 3,7,7-trimethy | 554-61-0   | 87 %          | 360         |
| .beta.-Pinene                            | 127-91-3   | 94 %          | 150         |

# AIR TOXICS LTD.

SAMPLE NAME : 7708 A&B

ID#: 9812153-04A/B

Modified VOST 5041A

|              |         |                     |          |
|--------------|---------|---------------------|----------|
| File Name:   | 9121108 | Date of Collection: | 12/9/98  |
| Dil. Factor: | 1.0     | Date of Analysis:   | 12/11/98 |

## TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported

| Compound | CAS Number | Match Quality | Amount (nG) |
|----------|------------|---------------|-------------|
|----------|------------|---------------|-------------|

E = Exceeds instrument calibration range.

Q = Exceeds Quality Control limits.

Container Type: VOST Tube

| Surrogates            | % Recovery | Method Limits |
|-----------------------|------------|---------------|
| 1,2-Dichloroethane-d4 | 113 Q      | 69-112        |
| Toluene-d8            | 98         | 72-134        |
| 4-Bromofluorobenzene  | 130 Q      | 78-119        |
| Dibromofluoromethane  | 103        | 70-130        |

# AIR TOXICS LTD.

SAMPLE NAME : 7709 A&B

ID#: 9812153-05A/B

Modified VOST 5041A

|                     |         |                                     |
|---------------------|---------|-------------------------------------|
| <b>File Name:</b>   | 9121130 | <b>Date of Collection:</b> 12/ 9/98 |
| <b>Dil. Factor:</b> | 1.0     | <b>Date of Analysis:</b> 12/11/98   |

| Compound                         | Det. Limit (nG) | Amount (nG)  |
|----------------------------------|-----------------|--------------|
| Chloromethane                    | 10              | Not Detected |
| Vinyl Chloride                   | 5.0             | Not Detected |
| Bromomethane                     | 10              | Not Detected |
| Chloroethane                     | 5.0             | Not Detected |
| 1,1-Dichloroethene               | 5.0             | Not Detected |
| Carbon Disulfide                 | 5.0             | 14           |
| Acetone                          | 50              | Not Detected |
| Methylene Chloride               | 5.0             | Not Detected |
| trans-1,2-Dichloroethene         | 5.0             | Not Detected |
| 1,1-Dichloroethane               | 5.0             | Not Detected |
| Vinyl Acetate                    | 10              | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 50              | Not Detected |
| Chloroform                       | 5.0             | Not Detected |
| 1,1,1-Trichloroethane            | 5.0             | 15           |
| Carbon Tetrachloride             | 5.0             | Not Detected |
| Benzene                          | 5.0             | Not Detected |
| 1,2-Dichloroethane               | 5.0             | Not Detected |
| Trichloroethene                  | 5.0             | Not Detected |
| 1,2-Dichloropropane              | 5.0             | Not Detected |
| Bromodichloromethane             | 5.0             | Not Detected |
| trans-1,3-Dichloropropene        | 5.0             | Not Detected |
| 4-Methyl-2-pentanone             | 10              | Not Detected |
| Toluene                          | 5.0             | 7.7          |
| cis-1,3-Dichloropropene          | 5.0             | Not Detected |
| 1,1,2-Trichloroethane            | 5.0             | Not Detected |
| Tetrachloroethene                | 5.0             | 310          |
| 2-Hexanone                       | 10              | Not Detected |
| Dibromochloromethane             | 5.0             | Not Detected |
| Chlorobenzene                    | 5.0             | Not Detected |
| Ethyl Benzene                    | 5.0             | Not Detected |
| m,p-Xylene                       | 5.0             | Not Detected |
| o-Xylene                         | 5.0             | Not Detected |
| Styrene                          | 5.0             | Not Detected |
| Bromoform                        | 5.0             | Not Detected |
| 1,1,2,2-Tetrachloroethane        | 5.0             | Not Detected |
| cis-1,2-Dichloroethene           | 5.0             | Not Detected |

### TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported

| Compound                                 | CAS Number | Match Quality | Amount (nG) |
|--|------------|---------------|-------------|
| Methane, dichlorodifluoro-               | 75-71-8    | 87 %          | 380         |
| Ethane, 1,2-dichloro-1,1,2,2-tetrafluoro | 76-14-2    | 72 %          | 920         |
| Methane, trichlorofluoro-                | 75-69-4    | 90 %          | 140         |
| Ethane, 1,2-dichloro-1,1,2-trifluoro-    | 354-23-4   | 95 %          | 36          |
| trans-1-Butyl-2-methylcyclopropane       | 38851-70-6 | 93 %          | 75          |
| 3-Cyclohepten-1-one                      | 1121-64-8  | 91 %          | 380         |

# AIR TOXICS LTD.

SAMPLE NAME : 7709 A&B

ID#: 9812153-05A/B

Modified VOST 5041A

|              |         |                     |          |
|--------------|---------|---------------------|----------|
| File Name:   | 9121110 | Date of Collection: | 12/9/98  |
| Dil. Factor: | 1.0     | Date of Analysis:   | 12/11/98 |

| TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported |            |               |             |
|--|------------|---------------|-------------|
| Compound   | CAS Number | Match Quality | Amount (nG) |
| Nonanal  | 124-19-6   | 72 %          | 120         |
| Octane, 2-chloro-                                  | 628-61-5   | Manual ID     | 37          |
| Pentadecane  | 629-62-9   | 87 %          | 61          |

Q = Exceeds Quality Control limits.

Container Type: VOST Tube

| Surrogates            | % Recovery | Method Limits |
|-----------------------|------------|---------------|
| 1,2-Dichloroethane-d4 | 113 Q      | 69-112        |
| Toluene-d8            | 99         | 72-134        |
| 4-Bromofluorobenzene  | 101        | 78-119        |
| Dibromofluoromethane  | 118        | 70-130        |

# AIR TOXICS LTD.

SAMPLE NAME : Lab Blank

ID#: 9812153-06A

Modified VOST 5041A

|                     |         |                                   |
|---------------------|---------|-----------------------------------|
| <b>File Name:</b>   | 9121105 | <b>Date of Collection:</b> NA     |
| <b>Dil. Factor:</b> | 1.0     | <b>Date of Analysis:</b> 12/11/98 |

| Compound                         | Det. Limit (nG) | Amount (nG)  |
|----------------------------------|-----------------|--------------|
| Chloromethane                    | 10              | Not Detected |
| Vinyl Chloride                   | 5.0             | Not Detected |
| Bromomethane                     | 10              | 25           |
| Chloroethane                     | 5.0             | Not Detected |
| 1,1-Dichloroethene               | 5.0             | Not Detected |
| Carbon Disulfide                 | 5.0             | Not Detected |
| Acetone                          | 50              | Not Detected |
| Methylene Chloride               | 5.0             | Not Detected |
| trans-1,2-Dichloroethene         | 5.0             | Not Detected |
| 1,1-Dichloroethane               | 5.0             | Not Detected |
| Vinyl Acetate                    | 10              | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 50              | Not Detected |
| Chloroform                       | 5.0             | Not Detected |
| 1,1,1-Trichloroethane            | 5.0             | Not Detected |
| Carbon Tetrachloride             | 5.0             | Not Detected |
| Benzene                          | 5.0             | Not Detected |
| 1,2-Dichloroethane               | 5.0             | Not Detected |
| Trichloroethene                  | 5.0             | Not Detected |
| 1,2-Dichloropropane              | 5.0             | Not Detected |
| Bromodichloromethane             | 5.0             | Not Detected |
| trans-1,3-Dichloropropene        | 5.0             | Not Detected |
| 4-Methyl-2-pentanone             | 10              | Not Detected |
| Toluene                          | 5.0             | Not Detected |
| cis-1,3-Dichloropropene          | 5.0             | Not Detected |
| 1,1,2-Trichloroethane            | 5.0             | Not Detected |
| Tetrachloroethene                | 5.0             | Not Detected |
| 2-Hexanone                       | 10              | Not Detected |
| Dibromochloromethane             | 5.0             | Not Detected |
| Chlorobenzene                    | 5.0             | Not Detected |
| Ethyl Benzene                    | 5.0             | Not Detected |
| m,p-Xylene                       | 5.0             | Not Detected |
| o-Xylene                         | 5.0             | Not Detected |
| Styrene                          | 5.0             | Not Detected |
| Bromoform                        | 5.0             | Not Detected |
| 1,1,2,2-Tetrachloroethane        | 5.0             | Not Detected |
| cis-1,2-Dichloroethene           | 5.0             | Not Detected |

### TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported

| Compound        | CAS Number | Match Quality | Amount (nG) |
|-----------------|------------|---------------|-------------|
| None Identified |            |               |             |
| None Identified |            |               |             |

Q = Exceeds Quality Control limits.

Container Type: NA

# AIR TOXICS LTD.

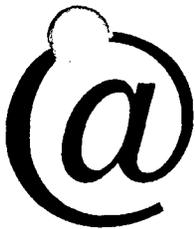
SAMPLE NAME : Lab Blank

ID#: 9812153-06A

Modified VOST 5041A

|              |         |                            |
|--------------|---------|----------------------------|
| File Name:   | 9121105 | Date of Collection: NA     |
| Dil. Factor: | 1.0     | Date of Analysis: 12/11/98 |

| Surrogates            | % Recovery | Method Limits |
|-----------------------|------------|---------------|
| 1,2-Dichloroethane-d4 | 132 Q      | 69-112        |
| Toluene-d8            | 91         | 72-134        |
| 4-Bromofluorobenzene  | 101        | 78-119        |
| Dibromofluoromethane  | 120        | 70-130        |



# CHAIN-OF-CUSTODY RECORD

No. 016594

Page 1 of 1

|  |   |   |
|--|---|---|
| Contact Person <u>Richard Grabowski</u><br>Company <u>US Army Corps of Engineers</u><br>Address <u>215 N. 17th St.</u> City <u>Omaha</u> State <u>NE</u> Zip <u>68102</u><br>Phone <u>(402) 221-7784</u> FAX <u>(402) 221-7769</u><br>Collected By: Signature <u>Richard Grabowski</u> | Project Info:<br>P.O. # _____<br>Project # _____<br>Project Name <u>Himco Dump Superfund Site</u> | Turn Around Time:<br><input checked="" type="checkbox"/> Normal<br><input type="checkbox"/> Rush _____<br>Specify _____ |
|--|---|---|

| Lab I.D. | Field Sample I.D. | Date & Time  | Analyses Requested    | Canister Pressure / Vacuum |       |         |
|----------|-------------------|--------------|-----------------------|----------------------------|-------|---------|
|          |                   |              |                       | Initial                    | Final | Receipt |
| 01A/B    | 7705 AEB          | 12/9/98 0700 | VOST 5041A/8260B/TICS | N/A                        | N/A   |         |
| 02A/B    | 7706 AEB          | 12/9/98 1145 | VOST 5041A/8260B/TICS | N/A                        | N/A   |         |
| 03A/B    | 7703 AEB          | 12/9/98 1332 | VOST 5041A/8260B/TICS | N/A                        | N/A   |         |
| 04A/B    | 7708 AEB          | 12/9/98 1425 | VOST 5041A/8260B/TICS | N/A                        | N/A   |         |
| 05A/B    | 7709 AEB          | 12/9/98 1533 | VOST 5041A/8260B/TICS | N/A                        | N/A   |         |
|          |                   |              |                       |                            |       |         |
|          |                   |              |                       |                            |       |         |
|          |                   |              |                       |                            |       |         |
|          |                   |              |                       |                            |       |         |

|  |  |
|--|--|
| Relinquished By: (Signature) <u>[Signature]</u> Date/Time <u>12/11/98 1830</u> | Print Name <u>RICHARD J. GRABOWSKI</u>                                     |
| Relinquished By: (Signature) _____ Date/Time _____                             | Received By: (Signature) <u>[Signature]</u> Date/Time <u>12/10/98 9:40</u> |
| Relinquished By: (Signature) _____ Date/Time _____                             | Received By: (Signature) _____ Date/Time _____                             |

Notes:

|              |              |                   |                    |                      |             |             |                       |                |
|--------------|--------------|-------------------|--------------------|----------------------|-------------|-------------|-----------------------|----------------|
| Lab Use Only | Shipper Name | Air Bill #        | Opened By:         | Date/Time            | Temp. (°C)  | Condition   | Custody Seals Intact? | Work Order #   |
|              | <u>Ed Ex</u> | <u>7425824313</u> | <u>[Signature]</u> | <u>12/10/98 9:40</u> | <u>iced</u> | <u>Good</u> | Yes No None N/A       | <u>9812153</u> |

# @AIR TOXICS LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

## WORK ORDER #: 9812185

### Work Order Summary

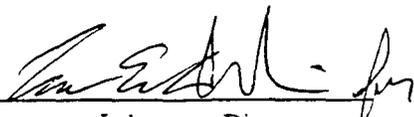
**CLIENT:** Mr. Steve Peterson  
 U.S. Army Corps of Engineers  
 215 N. 17th Street, Zorinsky Bldg.  
 Omaha, NE 68102-4978

**BILL TO:** Same

**PHONE:** 402-221-7183  
**FAX:** 402-221-7769  
**DATE RECEIVED:** 12/11/98  
**DATE COMPLETED:** 12/16/98

**P.O. # NR**  
**PROJECT # DACW45-99-P-0094 Himco Dump**

| <u>FRACTION #</u> | <u>NAME</u> | <u>TEST</u>            |
|-------------------|-------------|------------------------|
| 01A/B             | 7712 A&B    | VOST 5041A/8260B/TIC's |
| 02A/B             | 7711 A&B    | VOST 5041A/8260B/TIC's |
| 03A/B             | 7721 A&B    | VOST 5041A/8260B/TIC's |
| 04A/B             | 7724 A&B    | VOST 5041A/8260B/TIC's |
| 05A/B             | 7719 A&B    | VOST 5041A/8260B/TIC's |
| 06A/B             | 7704 A&B    | VOST 5041A/8260B/TIC's |
| 07A/B             | 7701 A&B    | VOST 5041A/8260B/TIC's |
| 08A/B             | 7710 A&B    | VOST 5041A/8260B/TIC's |
| 09A/B             | 7702 A&B    | VOST 5041A/8260B/TIC's |
| 10A               | Lab Blank   | VOST 5041A/8260B/TIC's |

**CERTIFIED BY:**   
 Laboratory Director

**DATE:** 12/17/98

Certification numbers: CA ELAP - 1149, NY ELAP - 11291, UT ELAP - E-217

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA 95630  
 (916) 985-1000 • (800) 985-5955 • FAX (916) 985-1020

**LABORATORY NARRATIVE**  
**Analysis of Volatile Organic Compounds in VOST Cartridges**  
**by EPA 5041A/8260B**  
**U.S. Army Corps of Engineers**  
**Work Order #9812185**

Nine Tenax and Tenax/charcoal tube pairs (VOST cartridges) were received on December 11, 1998. The sacrificial temperature check vial was not provided with the shipment, therefore the actual temperature of the shipment was not recorded. The samples were received on ice and therefore their integrity is not in question. The laboratory performed the analysis via EPA SW-846 Method 5041A using GC/MS in the full scan mode. The method involves thermal desorption of the VOST cartridges for 11 min. at 180° C using an inert gas. The gas stream is then bubbled through 5 mL of organic free water and trapped on the sorbent trap of the purge and trap system. The trap is thermally desorbed to elute the components into the GC system for further separation. See the data sheets for the reporting limits for each compound.

Recovery of the surrogate compound 4-Bromofluorobenzene was slightly above the laboratory established limits of 78-119% in sample 7721 A&B and LCS. Re-analysis to confirm matrix effects is not possible for VOST tube samples.

Recovery of the LCS compound Chlorobenzene was 131%, slightly above the advisory QC limits of 70-130% .

Bromomethane was detected in the laboratory blank. The "B" flag was applied to the associated results.

There were no other out of the ordinary circumstances to report.

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:

- B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
- J - Estimated Value.
- E - Exceeds instrument calibration range.
- S - Saturated Peak.
- Q - Exceeds quality control limits.
- U - Compound analyzed for but not detected above the detection limit.
- N - The identification is based on presumptive evidence.

# AIR TOXICS LTD.

SAMPLE NAME : 7712 A&B

ID#: 9812185-01A/B

Modified VOST 5041A

|                     |                |                            |                 |
|---------------------|----------------|----------------------------|-----------------|
| <b>File Name:</b>   | <b>9121205</b> | <b>Date of Collection:</b> | <b>12/10/98</b> |
| <b>Dil. Factor:</b> | <b>1.0</b>     | <b>Date of Analysis:</b>   | <b>12/12/98</b> |

| Compound                         | Det. Limit (nG) | Amount (nG)  |
|----------------------------------|-----------------|--------------|
| Chloromethane                    | 10              | Not Detected |
| Vinyl Chloride                   | 5.0             | Not Detected |
| Bromomethane                     | 10              | 13 B         |
| Chloroethane                     | 5.0             | Not Detected |
| 1,1-Dichloroethene               | 5.0             | Not Detected |
| Carbon Disulfide                 | 5.0             | Not Detected |
| Acetone                          | 50              | Not Detected |
| Methylene Chloride               | 5.0             | Not Detected |
| trans-1,2-Dichloroethene         | 5.0             | Not Detected |
| 1,1-Dichloroethane               | 5.0             | Not Detected |
| Vinyl Acetate                    | 10              | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 50              | Not Detected |
| Chloroform                       | 5.0             | Not Detected |
| 1,1,1-Trichloroethane            | 5.0             | Not Detected |
| Carbon Tetrachloride             | 5.0             | Not Detected |
| Benzene                          | 5.0             | Not Detected |
| 1,2-Dichloroethane               | 5.0             | Not Detected |
| Trichloroethene                  | 5.0             | Not Detected |
| 1,2-Dichloropropane              | 5.0             | Not Detected |
| Bromodichloromethane             | 5.0             | Not Detected |
| trans-1,3-Dichloropropene        | 5.0             | Not Detected |
| 4-Methyl-2-pentanone             | 10              | Not Detected |
| Toluene                          | 5.0             | Not Detected |
| cis-1,3-Dichloropropene          | 5.0             | Not Detected |
| 1,1,2-Trichloroethane            | 5.0             | Not Detected |
| Tetrachloroethene                | 5.0             | Not Detected |
| 2-Hexanone                       | 10              | Not Detected |
| Dibromochloromethane             | 5.0             | Not Detected |
| Chlorobenzene                    | 5.0             | Not Detected |
| Ethyl Benzene                    | 5.0             | Not Detected |
| m,p-Xylene                       | 5.0             | Not Detected |
| o-Xylene                         | 5.0             | Not Detected |
| Styrene                          | 5.0             | Not Detected |
| Bromoform                        | 5.0             | Not Detected |
| 1,1,2,2-Tetrachloroethane        | 5.0             | Not Detected |
| cis-1,2-Dichloroethene           | 5.0             | Not Detected |

## TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported

| Compound        | CAS Number | Match Quality | Amount (nG) |
|-----------------|------------|---------------|-------------|
| None Identified |            |               |             |
| None Identified |            |               |             |

B = Compound present in laboratory blank, background subtraction not performed.

Container Type: VOST Tube

# AIR TOXICS LTD.

SAMPLE NAME : 7712 A&B

ID#: 9812185-01A/B

Modified VOST 5041A

|              |         |                     |          |
|--------------|---------|---------------------|----------|
| File Name:   | 9121205 | Date of Collection: | 12/10/98 |
| Dil. Factor: | 1.0     | Date of Analysis:   | 12/12/98 |

| Surrogates            | % Recovery | Method Limits |
|-----------------------|------------|---------------|
| 1,2-Dichloroethane-d4 | 110        | 69-112        |
| Toluene-d8            | 116        | 72-134        |
| 4-Bromofluorobenzene  | 114        | 78-119        |
| Dibromofluoromethane  | 97         | 70-130        |

# AIR TOXICS LTD.

SAMPLE NAME : 7711 A&B

ID#: 9812185-02A/B

Modified VOST 5041A

|              |         |                     |          |
|--------------|---------|---------------------|----------|
| File Name:   | 9121206 | Date of Collection: | 12/10/98 |
| Dil. Factor: | 1.0     | Date of Analysis:   | 12/12/98 |

| Compound                         | Det. Limit (nG) | Amount (nG)  |
|----------------------------------|-----------------|--------------|
| Chloromethane                    | 10              | Not Detected |
| Vinyl Chloride                   | 5.0             | Not Detected |
| Bromomethane                     | 10              | Not Detected |
| Chloroethane                     | 5.0             | Not Detected |
| 1,1-Dichloroethene               | 5.0             | Not Detected |
| Carbon Disulfide                 | 5.0             | 31           |
| Acetone                          | 50              | Not Detected |
| Methylene Chloride               | 5.0             | Not Detected |
| trans-1,2-Dichloroethene         | 5.0             | Not Detected |
| 1,1-Dichloroethane               | 5.0             | Not Detected |
| Vinyl Acetate                    | 10              | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 50              | Not Detected |
| Chloroform                       | 5.0             | Not Detected |
| 1,1,1-Trichloroethane            | 5.0             | 6.4          |
| Carbon Tetrachloride             | 5.0             | Not Detected |
| Benzene                          | 5.0             | Not Detected |
| 1,2-Dichloroethane               | 5.0             | Not Detected |
| Trichloroethene                  | 5.0             | Not Detected |
| 1,2-Dichloropropane              | 5.0             | Not Detected |
| Bromodichloromethane             | 5.0             | Not Detected |
| trans-1,3-Dichloropropene        | 5.0             | Not Detected |
| 4-Methyl-2-pentanone             | 10              | Not Detected |
| Toluene                          | 5.0             | 8.8          |
| cis-1,3-Dichloropropene          | 5.0             | Not Detected |
| 1,1,2-Trichloroethane            | 5.0             | Not Detected |
| Tetrachloroethene                | 5.0             | Not Detected |
| 2-Hexanone                       | 10              | Not Detected |
| Dibromochloromethane             | 5.0             | Not Detected |
| Chlorobenzene                    | 5.0             | Not Detected |
| Ethyl Benzene                    | 5.0             | Not Detected |
| m,p-Xylene                       | 5.0             | Not Detected |
| o-Xylene                         | 5.0             | Not Detected |
| Styrene                          | 5.0             | Not Detected |
| Bromoform                        | 5.0             | Not Detected |
| 1,1,2,2-Tetrachloroethane        | 5.0             | Not Detected |
| cis-1,2-Dichloroethene           | 5.0             | Not Detected |

### TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported

| Compound            | CAS Number | Match Quality | Amount (nG) |
|---------------------|------------|---------------|-------------|
| 1-Hexene            | 592-41-6   | 94 %          | 39          |
| 3-Cyclohepten-1-one | 1121-64-8  | 87 %          | 28          |
| Nonanal             | 124-19-6   | 72 %          | 62          |

Container Type: VOST Tube

# AIR TOXICS LTD.

SAMPLE NAME : 7711 A&B

ID#: 9812185-02A/B

Modified VOST 5041A

|                     |         |                            |          |
|---------------------|---------|----------------------------|----------|
| <b>File Name:</b>   | 9121206 | <b>Date of Collection:</b> | 12/10/98 |
| <b>Dil. Factor:</b> | 1.0     | <b>Date of Analysis:</b>   | 12/12/98 |

| Surrogates            | % Recovery | Method Limits |
|-----------------------|------------|---------------|
| 1,2-Dichloroethane-d4 | 108        | 69-112        |
| Toluene-d8            | 102        | 72-134        |
| 4-Bromofluorobenzene  | 103        | 78-119        |
| Dibromofluoromethane  | 108        | 70-130        |

# AIR TOXICS LTD.

SAMPLE NAME : 7721 A&B

ID#: 9812185-03A/B

Modified VOST 5041A

|              |         |                              |
|--------------|---------|------------------------------|
| File Name:   | 9121207 | Date of Collection: 12/10/98 |
| Dil. Factor: | 1.0     | Date of Analysis: 12/12/98   |

| Compound                         | Det. Limit (nG) | Amount (nG)  |
|----------------------------------|-----------------|--------------|
| Chloromethane                    | 10              | Not Detected |
| Vinyl Chloride                   | 5.0             | Not Detected |
| Bromomethane                     | 10              | Not Detected |
| Chloroethane                     | 5.0             | Not Detected |
| 1,1-Dichloroethene               | 5.0             | Not Detected |
| Carbon Disulfide                 | 5.0             | 10           |
| Acetone                          | 50              | Not Detected |
| Methylene Chloride               | 5.0             | Not Detected |
| trans-1,2-Dichloroethene         | 5.0             | Not Detected |
| 1,1-Dichloroethane               | 5.0             | Not Detected |
| Vinyl Acetate                    | 10              | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 50              | Not Detected |
| Chloroform                       | 5.0             | Not Detected |
| 1,1,1-Trichloroethane            | 5.0             | 17           |
| Carbon Tetrachloride             | 5.0             | Not Detected |
| Benzene                          | 5.0             | Not Detected |
| 1,2-Dichloroethane               | 5.0             | Not Detected |
| Trichloroethene                  | 5.0             | Not Detected |
| 1,2-Dichloropropane              | 5.0             | Not Detected |
| Bromodichloromethane             | 5.0             | Not Detected |
| trans-1,3-Dichloropropene        | 5.0             | Not Detected |
| 4-Methyl-2-pentanone             | 10              | Not Detected |
| Toluene                          | 5.0             | 53           |
| cis-1,3-Dichloropropene          | 5.0             | Not Detected |
| 1,1,2-Trichloroethane            | 5.0             | Not Detected |
| Tetrachloroethene                | 5.0             | 2400 E       |
| 2-Hexanone                       | 10              | Not Detected |
| Dibromochloromethane             | 5.0             | Not Detected |
| Chlorobenzene                    | 5.0             | Not Detected |
| Ethyl Benzene                    | 5.0             | Not Detected |
| m,p-Xylene                       | 5.0             | Not Detected |
| o-Xylene                         | 5.0             | Not Detected |
| Styrene                          | 5.0             | Not Detected |
| Bromoform                        | 5.0             | Not Detected |
| 1,1,2,2-Tetrachloroethane        | 5.0             | Not Detected |
| cis-1,2-Dichloroethene           | 5.0             | Not Detected |

### TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported

| Compound                                 | CAS Number | Match Quality | Amount (nG) |
|--|------------|---------------|-------------|
| Methane, trichlorofluoro-                | 75-69-4    | 90 %          | 27          |
| 1,4-Cyclohexadiene, 1-methyl-            | 4313-57-9  | 91 %          | 27          |
| .alpha.-Pinene                           | 80-56-8    | 97 %          | 14000       |
| Cyclohexene, 3-methyl-6-(1-methylethylid | 586-63-0   | 83 %          | 480         |
| Cyclohexene, 4-methylene-1-(1-methylethy | 99-84-3    | 91 %          | 470         |
| .beta.-Pinene                            | 127-91-3   | 78 %          | 150         |

# AIR TOXICS LTD.

SAMPLE NAME : 7721 A&B

ID#: 9812185-03A/B

Modified VOST 5041A

|              |         |                     |          |
|--------------|---------|---------------------|----------|
| File Name:   | 9121207 | Date of Collection: | 12/10/98 |
| Dil. Factor: | 1.0     | Date of Analysis:   | 12/12/98 |

## TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported

| Compound | CAS Number | Match Quality | Amount (nG) |
|----------|------------|---------------|-------------|
| Limonene | 138-86-3   | 93 %          | 250         |
| Cineole  | 470-82-6   | 93 %          | 48          |

E = Exceeds instrument calibration range.

Q = Exceeds Quality Control limits.

Container Type: VOST Tube

| Surrogates            | % Recovery | Method Limits |
|-----------------------|------------|---------------|
| 1,2-Dichloroethane-d4 | 110        | 69-112        |
| Toluene-d8            | 97         | 72-134        |
| 4-Bromofluorobenzene  | 133 Q      | 78-119        |
| Dibromofluoromethane  | 112        | 70-130        |

# AIR TOXICS LTD.

SAMPLE NAME : 7724 A&B

ID#: 9812185-04A/B

Modified VOST 5041A

|                     |         |                            |          |
|---------------------|---------|----------------------------|----------|
| <b>File Name:</b>   | 9121208 | <b>Date of Collection:</b> | 12/10/98 |
| <b>Dil. Factor:</b> | 1.0     | <b>Date of Analysis:</b>   | 12/12/98 |

| Compound                         | Det. Limit (nG) | Amount (nG)  |
|----------------------------------|-----------------|--------------|
| Chloromethane                    | 10              | Not Detected |
| Vinyl Chloride                   | 5.0             | Not Detected |
| Bromomethane                     | 10              | Not Detected |
| Chloroethane                     | 5.0             | Not Detected |
| 1,1-Dichloroethene               | 5.0             | Not Detected |
| Carbon Disulfide                 | 5.0             | 5.9          |
| Acetone                          | 50              | Not Detected |
| Methylene Chloride               | 5.0             | Not Detected |
| trans-1,2-Dichloroethene         | 5.0             | Not Detected |
| 1,1-Dichloroethane               | 5.0             | Not Detected |
| Vinyl Acetate                    | 10              | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 50              | Not Detected |
| Chloroform                       | 5.0             | Not Detected |
| 1,1,1-Trichloroethane            | 5.0             | 15           |
| Carbon Tetrachloride             | 5.0             | Not Detected |
| Benzene                          | 5.0             | Not Detected |
| 1,2-Dichloroethane               | 5.0             | Not Detected |
| Trichloroethene                  | 5.0             | Not Detected |
| 1,2-Dichloropropane              | 5.0             | Not Detected |
| Bromodichloromethane             | 5.0             | Not Detected |
| trans-1,3-Dichloropropene        | 5.0             | Not Detected |
| 4-Methyl-2-pentanone             | 10              | Not Detected |
| Toluene                          | 5.0             | 16           |
| cis-1,3-Dichloropropene          | 5.0             | Not Detected |
| 1,1,2-Trichloroethane            | 5.0             | Not Detected |
| Tetrachloroethene                | 5.0             | 2000 E       |
| 2-Hexanone                       | 10              | Not Detected |
| Dibromochloromethane             | 5.0             | Not Detected |
| Chlorobenzene                    | 5.0             | Not Detected |
| Ethyl Benzene                    | 5.0             | Not Detected |
| m,p-Xylene                       | 5.0             | Not Detected |
| o-Xylene                         | 5.0             | Not Detected |
| Styrene                          | 5.0             | Not Detected |
| Bromoform                        | 5.0             | Not Detected |
| 1,1,2,2-Tetrachloroethane        | 5.0             | Not Detected |
| cis-1,2-Dichloroethene           | 5.0             | Not Detected |

### TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported

| Compound                                 | CAS Number | Match Quality | Amount (nG) |
|--|------------|---------------|-------------|
| Methane, trichlorofluoro-                | 75-69-4    | 90 %          | 34          |
| Cyclohexene, 4-methylene-1-(1-methylethy | 99-84-3    | 93 %          | 66          |
| Bicyclo[3.1.0]hexane, 4-methyl-1-(1-meth | 58037-87-9 | 86 %          | 74          |
| .alpha.-Pinene                           | 80-56-8    | 96 %          | 4700        |
| Cyclohexene, 3-methyl-6-(1-methylethylid | 586-63-0   | 83 %          | 3000        |
| .beta.-Pinene                            | 127-91-3   | 91 %          | 3000        |

# AIR TOXICS LTD.

SAMPLE NAME : 7724 A&B

ID#: 9812185-04A/B

Modified VOST 5041A

|              |         |                     |          |
|--------------|---------|---------------------|----------|
| File Name:   | 9121208 | Date of Collection: | 12/10/98 |
| Dil. Factor: | 1.0     | Date of Analysis:   | 12/12/98 |

## TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported

| Compound                          | CAS Number | Match Quality | Amount (nG) |
|-----------------------------------|------------|---------------|-------------|
| .beta.-Myrcene                    | 123-35-3   | 86 %          | 940         |
| Limonene                          | 138-86-3   | 93 %          | 1900        |
| Cineole                           | 470-82-6   | 95 %          | 450         |
| Camphor                           | 76-22-2    | 97 %          | 310         |
| 1,3-Benzodioxole, 5-(2-propenyl)- | 94-59-7    | 93 %          | 18000       |

E = Exceeds instrument calibration range.

Container Type: VOST Tube

| Surrogates            | % Recovery | Method Limits |
|-----------------------|------------|---------------|
| 1,2-Dichloroethane-d4 | 112        | 69-112        |
| Toluene-d8            | 93         | 72-134        |
| 4-Bromofluorobenzene  | 119        | 78-119        |
| Dibromofluoromethane  | 101        | 70-130        |

# AIR TOXICS LTD.

SAMPLE NAME : 7719 A&B

ID#: 9812185-05A/B

Modified VOST 5041A

|              |         |                     |          |
|--------------|---------|---------------------|----------|
| File Name:   | 9121209 | Date of Collection: | 12/10/98 |
| Dil. Factor: | 1.0     | Date of Analysis:   | 12/12/98 |

| Compound                         | Det. Limit (nG) | Amount (nG)  |
|----------------------------------|-----------------|--------------|
| Chloromethane                    | 10              | Not Detected |
| Vinyl Chloride                   | 5.0             | Not Detected |
| Bromomethane                     | 10              | Not Detected |
| Chloroethane                     | 5.0             | Not Detected |
| 1,1-Dichloroethene               | 5.0             | 11           |
| Carbon Disulfide                 | 5.0             | 16           |
| Acetone                          | 50              | Not Detected |
| Methylene Chloride               | 5.0             | 32           |
| trans-1,2-Dichloroethene         | 5.0             | 56           |
| 1,1-Dichloroethane               | 5.0             | 92           |
| Vinyl Acetate                    | 10              | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 50              | Not Detected |
| Chloroform                       | 5.0             | 64           |
| 1,1,1-Trichloroethane            | 5.0             | 200          |
| Carbon Tetrachloride             | 5.0             | Not Detected |
| Benzene                          | 5.0             | 25           |
| 1,2-Dichloroethane               | 5.0             | Not Detected |
| Trichloroethene                  | 5.0             | 1700 E       |
| 1,2-Dichloropropane              | 5.0             | Not Detected |
| Bromodichloromethane             | 5.0             | Not Detected |
| trans-1,3-Dichloropropene        | 5.0             | Not Detected |
| 4-Methyl-2-pentanone             | 10              | Not Detected |
| Toluene                          | 5.0             | 55           |
| cis-1,3-Dichloropropene          | 5.0             | Not Detected |
| 1,1,2-Trichloroethane            | 5.0             | Not Detected |
| Tetrachloroethene                | 5.0             | 25000 S      |
| 2-Hexanone                       | 10              | Not Detected |
| Dibromochloromethane             | 5.0             | Not Detected |
| Chlorobenzene                    | 5.0             | Not Detected |
| Ethyl Benzene                    | 5.0             | 14           |
| m,p-Xylene                       | 5.0             | 20           |
| o-Xylene                         | 5.0             | 8.4          |
| Styrene                          | 5.0             | Not Detected |
| Bromoform                        | 5.0             | Not Detected |
| 1,1,2,2-Tetrachloroethane        | 5.0             | Not Detected |
| cis-1,2-Dichloroethene           | 5.0             | 170          |

### TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported

| Compound                                 | CAS Number | Match Quality | Amount (nG) |
|--|------------|---------------|-------------|
| Ethane, 1,2-dichloro-1,1,2,2-tetrafluoro | 76-14-2    | 72 %          | 27000       |
| Methane, trichlorofluoro-                | 75-69-4    | 72 %          | 1400        |
| 3-Cyclohepten-1-one                      | 1121-64-8  | 91 %          | 280         |
| Heptane, 2,2-dimethyl-                   | 1071-26-7  | Manual ID     | 96          |
| Nonanal                                  | 124-19-6   | 72 %          | 93          |
| Camphor                                  | 76-22-2    | 97 %          | 550         |

# AIR TOXICS LTD.

SAMPLE NAME : 7719 A&B

ID#: 9812185-05A/B

Modified VOST 5041A

|              |         |                     |          |
|--------------|---------|---------------------|----------|
| File Name:   | 9121209 | Date of Collection: | 12/10/98 |
| Dil. Factor: | 1.0     | Date of Analysis:   | 12/12/98 |

## TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported

| Compound                                 | CAS Number | Match Quality | Amount (nG) |
|--|------------|---------------|-------------|
| .alpha.-Cubebene                         | 17699-14-8 | 78 %          | 220         |
| Decanal                                  | 112-31-2   | 72 %          | 38          |
| Naphthalene, 1,2,3,4,4a,5,6,8a-octahydro | 6813-21-4  | 86 %          | 94          |
| 1,3-Benzodioxole, 5-(2-propenyl)-        | 94-59-7    | 93 %          | 18000       |

E = Exceeds instrument calibration range.

S = Saturated peak; data reported as estimated.

Container Type: VOST Tube

| Surrogates            | % Recovery | Method Limits |
|-----------------------|------------|---------------|
| 1,2-Dichloroethane-d4 | 108        | 69-112        |
| Toluene-d8            | 95         | 72-134        |
| 4-Bromofluorobenzene  | 111        | 78-119        |
| Dibromofluoromethane  | 110        | 70-130        |

# AIR TOXICS LTD.

SAMPLE NAME : 7704 A&B

ID#: 9812185-06A/B

Modified VOST 5041A

|                     |         |                            |          |
|---------------------|---------|----------------------------|----------|
| <b>File Name:</b>   | 9121210 | <b>Date of Collection:</b> | 12/10/98 |
| <b>Dil. Factor:</b> | 1.0     | <b>Date of Analysis:</b>   | 12/12/98 |

| Compound                         | Det. Limit (nG) | Amount (nG)  |
|----------------------------------|-----------------|--------------|
| Chloromethane                    | 10              | Not Detected |
| Vinyl Chloride                   | 5.0             | Not Detected |
| Bromomethane                     | 10              | 14 B         |
| Chloroethane                     | 5.0             | Not Detected |
| 1,1-Dichloroethene               | 5.0             | Not Detected |
| Carbon Disulfide                 | 5.0             | 5.2          |
| Acetone                          | 50              | Not Detected |
| Methylene Chloride               | 5.0             | Not Detected |
| trans-1,2-Dichloroethene         | 5.0             | Not Detected |
| 1,1-Dichloroethane               | 5.0             | Not Detected |
| Vinyl Acetate                    | 10              | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 50              | Not Detected |
| Chloroform                       | 5.0             | 37           |
| 1,1,1-Trichloroethane            | 5.0             | 5.8          |
| Carbon Tetrachloride             | 5.0             | Not Detected |
| Benzene                          | 5.0             | Not Detected |
| 1,2-Dichloroethane               | 5.0             | Not Detected |
| Trichloroethene                  | 5.0             | Not Detected |
| 1,2-Dichloropropane              | 5.0             | Not Detected |
| Bromodichloromethane             | 5.0             | Not Detected |
| trans-1,3-Dichloropropene        | 5.0             | Not Detected |
| 4-Methyl-2-pentanone             | 10              | Not Detected |
| Toluene                          | 5.0             | 20           |
| cis-1,3-Dichloropropene          | 5.0             | Not Detected |
| 1,1,2-Trichloroethane            | 5.0             | Not Detected |
| Tetrachloroethene                | 5.0             | 24           |
| 2-Hexanone                       | 10              | Not Detected |
| Dibromochloromethane             | 5.0             | Not Detected |
| Chlorobenzene                    | 5.0             | Not Detected |
| Ethyl Benzene                    | 5.0             | Not Detected |
| m,p-Xylene                       | 5.0             | Not Detected |
| o-Xylene                         | 5.0             | Not Detected |
| Styrene                          | 5.0             | Not Detected |
| Bromoform                        | 5.0             | Not Detected |
| 1,1,2,2-Tetrachloroethane        | 5.0             | Not Detected |
| cis-1,2-Dichloroethene           | 5.0             | Not Detected |

### TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported

| Compound                                 | CAS Number | Match Quality | Amount (nG) |
|--|------------|---------------|-------------|
| Unknown                                  | NA         | NA            | 31          |
| Nonanal                                  | 124-19-6   | 72 %          | 99          |
| 1H-Cyclopenta[1,3]cyclopropa[1,2]benzene | 13744-15-5 | Manual ID     | 120         |
| 1,3-Benzodioxole, 5-(1-propenyl)-        | 120-58-1   | 93 %          | 300         |

B = Compound present in laboratory blank, background subtraction not performed.

# AIR TOXICS LTD.

SAMPLE NAME : 7701 A&B

ID#: 9812185-07A/B

Modified VOST 5041A

|              |         |                     |          |
|--------------|---------|---------------------|----------|
| File Name:   | 9121211 | Date of Collection: | 12/10/98 |
| Dil. Factor: | 1.0     | Date of Analysis:   | 12/12/98 |

| Compound                         | Det. Limit (nG) | Amount (nG)  |
|----------------------------------|-----------------|--------------|
| Chloromethane                    | 10              | Not Detected |
| Vinyl Chloride                   | 5.0             | Not Detected |
| Bromomethane                     | 10              | Not Detected |
| Chloroethane                     | 5.0             | Not Detected |
| 1,1-Dichloroethene               | 5.0             | Not Detected |
| Carbon Disulfide                 | 5.0             | 14           |
| Acetone                          | 50              | Not Detected |
| Methylene Chloride               | 5.0             | Not Detected |
| trans-1,2-Dichloroethene         | 5.0             | Not Detected |
| 1,1-Dichloroethane               | 5.0             | Not Detected |
| Vinyl Acetate                    | 10              | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 50              | Not Detected |
| Chloroform                       | 5.0             | Not Detected |
| 1,1,1-Trichloroethane            | 5.0             | 5.1          |
| Carbon Tetrachloride             | 5.0             | Not Detected |
| Benzene                          | 5.0             | Not Detected |
| 1,2-Dichloroethane               | 5.0             | Not Detected |
| Trichloroethene                  | 5.0             | Not Detected |
| 1,2-Dichloropropane              | 5.0             | Not Detected |
| Bromodichloromethane             | 5.0             | Not Detected |
| trans-1,3-Dichloropropene        | 5.0             | Not Detected |
| 4-Methyl-2-pentanone             | 10              | Not Detected |
| Toluene                          | 5.0             | 16           |
| cis-1,3-Dichloropropene          | 5.0             | Not Detected |
| 1,1,2-Trichloroethane            | 5.0             | Not Detected |
| Tetrachloroethene                | 5.0             | 230          |
| 2-Hexanone                       | 10              | Not Detected |
| Dibromochloromethane             | 5.0             | Not Detected |
| Chlorobenzene                    | 5.0             | Not Detected |
| Ethyl Benzene                    | 5.0             | Not Detected |
| m,p-Xylene                       | 5.0             | Not Detected |
| o-Xylene                         | 5.0             | Not Detected |
| Styrene                          | 5.0             | Not Detected |
| Bromoform                        | 5.0             | Not Detected |
| 1,1,2,2-Tetrachloroethane        | 5.0             | Not Detected |
| cis-1,2-Dichloroethene           | 5.0             | Not Detected |

### TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported

| Compound                          | CAS Number | Match Quality | Amount (nG) |
|-----------------------------------|------------|---------------|-------------|
| Nonanal                           | 124-19-6   | 72 %          | 140         |
| 1,3-Benzodioxole, 5-(1-propenyl)- | 120-58-1   | 92 %          | 150         |

Container Type: VOST Tube

# AIR TOXICS LTD.

ID#: 9812185-06A/B

|                     |         |                            |          |
|---------------------|---------|----------------------------|----------|
| <b>File Name:</b>   | 9121210 | <b>Date of Collection:</b> | 12/10/98 |
| <b>Dil. Factor:</b> | 1.0     | <b>Date of Analysis:</b>   | 12/12/98 |

Container Type: VOST Tube

| Surrogates            | % Recovery | Method Limits |
|-----------------------|------------|---------------|
| 1,2-Dichloroethane-d4 | 105        | 69-112        |
| Toluene-d8            | 112        | 72-134        |
| 4-Bromofluorobenzene  | 112        | 78-119        |
| Dibromofluoromethane  | 102        | 70-130        |

# AIR TOXICS LTD.

SAMPLE NAME : 7701 A&B

ID#: 9812185-07A/B

Modified VOST 5041A

|                     |                |                            |                 |
|---------------------|----------------|----------------------------|-----------------|
| <b>File Name:</b>   | <b>9121211</b> | <b>Date of Collection:</b> | <b>12/10/98</b> |
| <b>Dil. Factor:</b> | <b>1.0</b>     | <b>Date of Analysis:</b>   | <b>12/12/98</b> |

| <b>Surrogates</b>     | <b>% Recovery</b> | <b>Method Limits</b> |
|-----------------------|-------------------|----------------------|
| 1,2-Dichloroethane-d4 | 104               | 69-112               |
| Toluene-d8            | 108               | 72-134               |
| 4-Bromofluorobenzene  | 105               | 78-119               |
| Dibromofluoromethane  | 102               | 70-130               |

# AIR TOXICS LTD.

SAMPLE NAME : 7710 A&B

ID#: 9812185-08A/B

Modified VOST 5041A

|              |         |                     |          |
|--------------|---------|---------------------|----------|
| File Name:   | 9121212 | Date of Collection: | 12/10/98 |
| Dil. Factor: | 1.0     | Date of Analysis:   | 12/12/98 |

| Compound                         | Det. Limit (nG) | Amount (nG)  |
|----------------------------------|-----------------|--------------|
| Chloromethane                    | 10              | Not Detected |
| Vinyl Chloride                   | 5.0             | Not Detected |
| Bromomethane                     | 10              | Not Detected |
| Chloroethane                     | 5.0             | Not Detected |
| 1,1-Dichloroethene               | 5.0             | Not Detected |
| Carbon Disulfide                 | 5.0             | 6.1          |
| Acetone                          | 50              | Not Detected |
| Methylene Chloride               | 5.0             | Not Detected |
| trans-1,2-Dichloroethene         | 5.0             | Not Detected |
| 1,1-Dichloroethane               | 5.0             | Not Detected |
| Vinyl Acetate                    | 10              | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 50              | Not Detected |
| Chloroform                       | 5.0             | Not Detected |
| 1,1,1-Trichloroethane            | 5.0             | Not Detected |
| Carbon Tetrachloride             | 5.0             | Not Detected |
| Benzene                          | 5.0             | Not Detected |
| 1,2-Dichloroethane               | 5.0             | Not Detected |
| Trichloroethene                  | 5.0             | Not Detected |
| 1,2-Dichloropropane              | 5.0             | Not Detected |
| Bromodichloromethane             | 5.0             | Not Detected |
| trans-1,3-Dichloropropene        | 5.0             | Not Detected |
| 4-Methyl-2-pentanone             | 10              | Not Detected |
| Toluene                          | 5.0             | 16           |
| cis-1,3-Dichloropropene          | 5.0             | Not Detected |
| 1,1,2-Trichloroethane            | 5.0             | Not Detected |
| Tetrachloroethene                | 5.0             | 31           |
| 2-Hexanone                       | 10              | Not Detected |
| Dibromochloromethane             | 5.0             | Not Detected |
| Chlorobenzene                    | 5.0             | Not Detected |
| Ethyl Benzene                    | 5.0             | Not Detected |
| m,p-Xylene                       | 5.0             | Not Detected |
| o-Xylene                         | 5.0             | Not Detected |
| Styrene                          | 5.0             | Not Detected |
| Bromoform                        | 5.0             | Not Detected |
| 1,1,2,2-Tetrachloroethane        | 5.0             | Not Detected |
| cis-1,2-Dichloroethene           | 5.0             | Not Detected |

### TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported

| Compound                          | CAS Number | Match Quality | Amount (nG) |
|-----------------------------------|------------|---------------|-------------|
| Nonanal                           | 124-19-6   | 72 %          | 40          |
| 1,3-Benzodioxole, 5-(2-propenyl)- | 94-59-7    | 93 %          | 69          |

Container Type: VOST Tube

# AIR TOXICS LTD.

SAMPLE NAME : 7710 A&B

ID#: 9812185-08A/B

Modified VOST 5041A

|                     |                |                            |                 |
|---------------------|----------------|----------------------------|-----------------|
| <b>File Name:</b>   | <b>9121212</b> | <b>Date of Collection:</b> | <b>12/10/98</b> |
| <b>Dil. Factor:</b> | <b>1.0</b>     | <b>Date of Analysis:</b>   | <b>12/12/98</b> |

| Surrogates            | % Recovery | Method Limits |
|-----------------------|------------|---------------|
| 1,2-Dichloroethane-d4 | 100        | 69-112        |
| Toluene-d8            | 97         | 72-134        |
| 4-Bromofluorobenzene  | 99         | 78-119        |
| Dibromofluoromethane  | 112        | 70-130        |

# AIR TOXICS LTD.

SAMPLE NAME : 7702 A&B

ID#: 9812185-09A/B

Modified VOST 5041A

|              |         |                     |          |
|--------------|---------|---------------------|----------|
| File Name:   | 9121213 | Date of Collection: | 12/10/98 |
| Dil. Factor: | 1.0     | Date of Analysis:   | 12/12/98 |

| Compound                         | Det. Limit (nG) | Amount (nG)  |
|----------------------------------|-----------------|--------------|
| Chloromethane                    | 10              | Not Detected |
| Vinyl Chloride                   | 5.0             | Not Detected |
| Bromomethane                     | 10              | Not Detected |
| Chloroethane                     | 5.0             | Not Detected |
| 1,1-Dichloroethene               | 5.0             | Not Detected |
| Carbon Disulfide                 | 5.0             | 13           |
| Acetone                          | 50              | Not Detected |
| Methylene Chloride               | 5.0             | Not Detected |
| trans-1,2-Dichloroethene         | 5.0             | Not Detected |
| 1,1-Dichloroethane               | 5.0             | 59           |
| Vinyl Acetate                    | 10              | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 50              | Not Detected |
| Chloroform                       | 5.0             | 24           |
| 1,1,1-Trichloroethane            | 5.0             | 2300 E       |
| Carbon Tetrachloride             | 5.0             | Not Detected |
| Benzene                          | 5.0             | Not Detected |
| 1,2-Dichloroethane               | 5.0             | Not Detected |
| Trichloroethene                  | 5.0             | 36           |
| 1,2-Dichloropropane              | 5.0             | Not Detected |
| Bromodichloromethane             | 5.0             | Not Detected |
| trans-1,3-Dichloropropene        | 5.0             | Not Detected |
| 4-Methyl-2-pentanone             | 10              | Not Detected |
| Toluene                          | 5.0             | 9.6          |
| cis-1,3-Dichloropropene          | 5.0             | Not Detected |
| 1,1,2-Trichloroethane            | 5.0             | Not Detected |
| Tetrachloroethene                | 5.0             | 28           |
| 2-Hexanone                       | 10              | Not Detected |
| Dibromochloromethane             | 5.0             | Not Detected |
| Chlorobenzene                    | 5.0             | Not Detected |
| Ethyl Benzene                    | 5.0             | Not Detected |
| m,p-Xylene                       | 5.0             | Not Detected |
| o-Xylene                         | 5.0             | Not Detected |
| Styrene                          | 5.0             | Not Detected |
| Bromoform                        | 5.0             | Not Detected |
| 1,1,2,2-Tetrachloroethane        | 5.0             | Not Detected |
| cis-1,2-Dichloroethene           | 5.0             | Not Detected |

## TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported

| Compound                          | CAS Number | Match Quality | Amount (nG) |
|-----------------------------------|------------|---------------|-------------|
| Methane, trichlorofluoro-         | 75-69-4    | 90 %          | 160         |
| Nonanal                           | 124-19-6   | 72 %          | 86          |
| 1,3-Benzodioxole, 5-(1-propenyl)- | 120-58-1   | 93 %          | 54          |

E = Exceeds instrument calibration range.

# AIR TOXICS LTD.

ID#: 9812185-09A/B

|                     |         |                            |          |
|---------------------|---------|----------------------------|----------|
| <b>File Name:</b>   | 9121213 | <b>Date of Collection:</b> | 12/10/98 |
| <b>Dil. Factor:</b> | 1.0     | <b>Date of Analysis:</b>   | 12/12/98 |

Container Type: VOST Tube

| Surrogates            | % Recovery | Method Limits |
|-----------------------|------------|---------------|
| 1,2-Dichloroethane-d4 | 107        | 69-112        |
| Toluene-d8            | 98         | 72-134        |
| 4-Bromofluorobenzene  | 100        | 78-119        |
| Dibromofluoromethane  | 103        | 70-130        |

# AIR TOXICS LTD.

SAMPLE NAME : Lab Blank

ID#: 9812185-10A

Modified VOST 5041A

|                     |         |                                   |
|---------------------|---------|-----------------------------------|
| <b>File Name:</b>   | 9121204 | <b>Date of Collection:</b> NA     |
| <b>Dil. Factor:</b> | 1.0     | <b>Date of Analysis:</b> 12/12/98 |

| Compound                         | Det. Limit (nG) | Amount (nG)  |
|----------------------------------|-----------------|--------------|
| Chloromethane                    | 10              | Not Detected |
| Vinyl Chloride                   | 5.0             | Not Detected |
| Bromomethane                     | 10              | 20           |
| Chloroethane                     | 5.0             | Not Detected |
| 1,1-Dichloroethene               | 5.0             | Not Detected |
| Carbon Disulfide                 | 5.0             | Not Detected |
| Acetone                          | 50              | Not Detected |
| Methylene Chloride               | 5.0             | Not Detected |
| trans-1,2-Dichloroethene         | 5.0             | Not Detected |
| 1,1-Dichloroethane               | 5.0             | Not Detected |
| Vinyl Acetate                    | 10              | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 50              | Not Detected |
| Chloroform                       | 5.0             | Not Detected |
| 1,1,1-Trichloroethane            | 5.0             | Not Detected |
| Carbon Tetrachloride             | 5.0             | Not Detected |
| Benzene                          | 5.0             | Not Detected |
| 1,2-Dichloroethane               | 5.0             | Not Detected |
| Trichloroethene                  | 5.0             | Not Detected |
| 1,2-Dichloropropane              | 5.0             | Not Detected |
| Bromodichloromethane             | 5.0             | Not Detected |
| trans-1,3-Dichloropropene        | 5.0             | Not Detected |
| 4-Methyl-2-pentanone             | 10              | Not Detected |
| Toluene                          | 5.0             | Not Detected |
| cis-1,3-Dichloropropene          | 5.0             | Not Detected |
| 1,1,2-Trichloroethane            | 5.0             | Not Detected |
| Tetrachloroethene                | 5.0             | Not Detected |
| 2-Hexanone                       | 10              | Not Detected |
| Dibromochloromethane             | 5.0             | Not Detected |
| Chlorobenzene                    | 5.0             | Not Detected |
| Ethyl Benzene                    | 5.0             | Not Detected |
| m,p-Xylene                       | 5.0             | Not Detected |
| o-Xylene                         | 5.0             | Not Detected |
| Styrene                          | 5.0             | Not Detected |
| Bromoform                        | 5.0             | Not Detected |
| 1,1,2,2-Tetrachloroethane        | 5.0             | Not Detected |
| cis-1,2-Dichloroethene           | 5.0             | Not Detected |

### TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported

| Compound        | CAS Number | Match Quality | Amount (nG) |
|-----------------|------------|---------------|-------------|
| None Identified |            |               |             |
| None Identified |            |               |             |

Container Type: NA

# AIR TOXICS LTD.

SAMPLE NAME : Lab Blank

ID#: 9812185-10A

Modified VOST 5041A

|              |         |                     |          |
|--------------|---------|---------------------|----------|
| File Name:   | 9121204 | Date of Collection: | NA       |
| Dil. Factor: | 1.0     | Date of Analysis:   | 12/12/98 |

| Surrogates            | % Recovery | Method Limits |
|-----------------------|------------|---------------|
| 1,2-Dichloroethane-d4 | 111        | 69-112        |
| Toluene-d8            | 100        | 72-134        |
| 4-Bromofluorobenzene  | 108        | 78-119        |
| Dibromofluoromethane  | 107        | 70-130        |



**AIR TOXICS LTD.**

AN ENVIRONMENTAL ANALYTICAL LABORATORY

180 BLUE RAVINE ROAD, SUITE B  
FOLSOM, CA 95630-4719  
(916) 985-1000 FAX: (916) 985-1020

# CHAIN-OF-CUSTODY RECORD

Nº 016617

Page 1 of 1

|  |   |   |
|--|---|---|
| Contact Person <u>Richard Grabowski</u><br>Company <u>US Army Corps of Engineers</u><br>Address <u>215 N. 17th St.</u> City <u>Omaha</u> State <u>NE</u> Zip <u>68102</u><br>Phone <u>(402) 221-7784</u> FAX <u>(402) 221-7769</u><br>Collected By: Signature <u>Richard Grabowski</u> | Project info:<br>P.O. # _____<br>Project # _____<br>Project Name <u>Hinco Dump Superfund Site</u> | Turn Around Time:<br><input checked="" type="checkbox"/> Normal<br><input type="checkbox"/> Rush _____<br>Specify _____ |
|--|---|---|

| Lab I.D. | Field Sample I.D. | Date & Time   | Analyses Requested          | Canister Pressure / Vacuum |       |         |
|----------|-------------------|---------------|-----------------------------|----------------------------|-------|---------|
|          |                   |               |                             | Initial                    | Final | Receipt |
| 01A/B    | 7712 AEB          | 12/10/98 0700 | VOST 5041 A / 8260 B / TICS | N/A                        | N/A   |         |
| 02A/B    | 7711 AEB          | 12/10/98 0855 | VOST 5041 A / 8260 B / TICS | N/A                        | N/A   |         |
| 03A/B    | 7721 AEB          | 12/10/98 0953 | VOST 5041 A / 8260 B / TICS | N/A                        | N/A   |         |
| 04A/B    | 7724 AEB          | 12/10/98 1008 | VOST 5041 A / 8260 B / TICS | N/A                        | N/A   |         |
| 05A/B    | 7719 AEB          | 12/10/98 1122 | VOST 5041 A / 8260 B / TICS | N/A                        | N/A   |         |
| 06A/B    | 7704 AEB          | 12/10/98 1218 | VOST 5041 A / 8260 B / TICS | N/A                        | N/A   |         |
| 07A/B    | 7701 AEB          | 12/10/98 1410 | VOST 5041 A / 8260 B / TICS | N/A                        | N/A   |         |
| 08A/B    | 7716 AEB          | 12/10/98 1503 | VOST 5041 A / 8260 B / TICS | N/A                        | N/A   |         |
| 09A/B    | 7702 AEB          | 12/10/98 1622 | VOST 5041 A / 8260 B / TICS | N/A                        | N/A   |         |

|  |  |   |
|--|--|---|
| Relinquished By: Signature <u>Richard J. Grabowski</u> Date/Time <u>12/10/98</u><br>Relinquished By: (Signature) Date/Time _____<br>Relinquished By: (Signature) Date/Time _____ | Print Name <u>RICHARD J. GRABOWSKI</u><br>Received By: (Signature) Date/Time _____<br>Received By: (Signature) Date/Time _____ | Notes:<br><u>Handwritten note: AR 12/11/98 1030</u> |
|--|--|---|

|              |                            |                                |                     |                                |                          |                       |  |                             |
|--------------|----------------------------|--------------------------------|---------------------|--------------------------------|--------------------------|-----------------------|--|-----------------------------|
| Lab Use Only | Shipper Name <u>Fed-Ex</u> | Air Bill # <u>809200473891</u> | Opened By <u>TS</u> | Date/Time <u>12/11/98 1030</u> | Temp. (°C) <u>on ice</u> | Condition <u>Good</u> | Custody Seals Intact? <u>Yes</u> No None N/A | Work Order # <u>9812185</u> |
|--------------|----------------------------|--------------------------------|---------------------|--------------------------------|--------------------------|-----------------------|--|-----------------------------|

# @AIR TOXICS LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

## WORK ORDER #: 9812208

### Work Order Summary

**CLIENT:** Mr. Steve Peterson  
U.S. Army Corps of Engineers  
215 N. 17th Street, Zorinsky Bldg.  
Omaha, NE 68102-4978

**BILL TO:** Same

**PHONE:** 402-221-7183  
**FAX:** 402-221-7769  
**DATE RECEIVED:** 12/12/98  
**DATE COMPLETED:** 12/21/98

**P.O. #** NR  
**PROJECT #** DACW45-99-P-0094 Himco Dump

| <u>FRACTION #</u> | <u>NAME</u> | <u>TEST</u>            |
|-------------------|-------------|------------------------|
| 01A/B             | 7715 A&B    | VOST 5041A/8260B/TIC's |
| 02A/B             | 7720 A&B    | VOST 5041A/8260B/TIC's |
| 03A/B             | 7707 A&B    | VOST 5041A/8260B/TIC's |
| 04A/B             | 7718 A&B    | VOST 5041A/8260B/TIC's |
| 05A/B             | 7717 A&B    | VOST 5041A/8260B/TIC's |
| 06A/B             | 7714 A&B    | VOST 5041A/8260B/TIC's |
| 07A               | Lab Blank   | VOST 5041A/8260B/TIC's |

CERTIFIED BY: 

Laboratory Director

DATE: 12/21/98

Certification numbers: CA ELAP - 1149, NY ELAP - 11291, UT ELAP - E-217

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA 95630  
(916) 985-1000 • (800) 985-5955 • FAX (916) 985-1020

**LABORATORY NARRATIVE**  
**Analysis of Volatile Organic Compounds in VOST Cartridges**  
**by EPA 5041A/8260B**  
**U.S. Army Corps of Engineers**  
**Work Order #9812208**

Six Tenax and Tenax/charcoal tube pairs (VOST cartridges) were received on December 12, 1998. The sacrificial temperature check vial was not provided with the shipment, therefore the actual temperature of the shipment was not recorded. The samples were received on ice and therefore their integrity is not in question. The laboratory performed the analysis via EPA SW-846 Method 5041A using GC/MS in the full scan mode. The method involves thermal desorption of the VOST cartridges for 11 min. at 180° C using an inert gas. The gas stream is then bubbled through 5 mL of organic free water and trapped on the sorbent trap of the purge and trap system. The trap is thermally desorbed to elute the components into the GC system for further separation. See the data sheets for the reporting limits for each compound.

Bromomethane was detected in the laboratory blank. The "B" flag was applied to the associated results.

Recovery of the surrogate compound 1,2-Dichloroethane-d4 was slightly above the laboratory established limits of 69-112% in samples 7714 A&B and 7720 A&B. Recovery of the surrogate compound 4-Bromofluorobenzene was above the laboratory established limits of 78-119% in sample 7714 A&B, possibly due to matrix effect. Re-analysis to confirm matrix effects is not possible for VOST tube samples.

There were no other out of the ordinary circumstances to report.

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:

- B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
- J - Estimated Value.
- E - Exceeds instrument calibration range.
- S - Saturated Peak.
- Q - Exceeds quality control limits.
- U - Compound analyzed for but not detected above the detection limit.
- N - The identification is based on presumptive evidence.

# AIR TOXICS LTD.

SAMPLE NAME : 7715 A&B

ID#: 9812208-01A/B

Modified VOST 5041A

|              |         |                              |
|--------------|---------|------------------------------|
| File Name:   | 9121409 | Date of Collection: 12/11/98 |
| Dil. Factor: | 1.0     | Date of Analysis: 12/14/98   |

| Compound                         | Det. Limit (nG) | Amount (nG)  |
|----------------------------------|-----------------|--------------|
| Chloromethane                    | 10              | Not Detected |
| Vinyl Chloride                   | 5.0             | Not Detected |
| Bromomethane                     | 10              | Not Detected |
| Chloroethane                     | 5.0             | Not Detected |
| 1,1-Dichloroethene               | 5.0             | Not Detected |
| Carbon Disulfide                 | 5.0             | Not Detected |
| Acetone                          | 50              | Not Detected |
| Methylene Chloride               | 5.0             | Not Detected |
| trans-1,2-Dichloroethene         | 5.0             | Not Detected |
| 1,1-Dichloroethane               | 5.0             | Not Detected |
| Vinyl Acetate                    | 10              | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 50              | Not Detected |
| Chloroform                       | 5.0             | Not Detected |
| 1,1,1-Trichloroethane            | 5.0             | Not Detected |
| Carbon Tetrachloride             | 5.0             | Not Detected |
| Benzene                          | 5.0             | Not Detected |
| 1,2-Dichloroethane               | 5.0             | Not Detected |
| Trichloroethene                  | 5.0             | Not Detected |
| 1,2-Dichloropropane              | 5.0             | Not Detected |
| Bromodichloromethane             | 5.0             | Not Detected |
| trans-1,3-Dichloropropene        | 5.0             | Not Detected |
| 4-Methyl-2-pentanone             | 10              | Not Detected |
| Toluene                          | 5.0             | Not Detected |
| cis-1,3-Dichloropropene          | 5.0             | Not Detected |
| 1,1,2-Trichloroethane            | 5.0             | Not Detected |
| Tetrachloroethene                | 5.0             | Not Detected |
| 2-Hexanone                       | 10              | Not Detected |
| Dibromochloromethane             | 5.0             | Not Detected |
| Chlorobenzene                    | 5.0             | Not Detected |
| Ethyl Benzene                    | 5.0             | Not Detected |
| m,p-Xylene                       | 5.0             | Not Detected |
| o-Xylene                         | 5.0             | Not Detected |
| Styrene                          | 5.0             | Not Detected |
| Bromoform                        | 5.0             | Not Detected |
| 1,1,2,2-Tetrachloroethane        | 5.0             | Not Detected |
| cis-1,2-Dichloroethene           | 5.0             | Not Detected |

### TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported

| Compound        | CAS Number | Match Quality | Amount (nG) |
|-----------------|------------|---------------|-------------|
| None Identified |            |               |             |
| None Identified |            |               |             |

Container Type: VOST Tube

**Table 2-4**  
**Summary of Soil Gas Ambient Air and Equipment Blank Results - October 1999**  
**HIMCO Dump Superfund Site**  
**Elkhart, Indiana**

| Sample Location      | TT-71                    | TT-71                    | TT-96                    | TT-96                    |
|----------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Sample Description   | Ambient Air              | Equipment                | Ambient                  | Equipment                |
| Analyte              | Blank                    | Blank                    | Blank                    | Blank                    |
|                      | $\mu\text{g}/\text{m}^3$ | $\mu\text{g}/\text{m}^3$ | $\mu\text{g}/\text{m}^3$ | $\mu\text{g}/\text{m}^3$ |
| Chloromethane        | ND                       | ND                       | ND                       | 0.67                     |
| Freon 11             | 0.52                     | 0.71                     | 1.16                     | 1.28                     |
| Carbon Disulfide     | ND                       | 0.58                     | ND                       | 1.43                     |
| Acetone              | ND                       | ND                       | ND                       | 3.52                     |
| Methylene Chloride   | ND                       | ND                       | 0.63                     | 0.86                     |
| Carbon Tetrachloride | 0.43                     | 0.50                     | 0.53                     | 0.52                     |
| Benzene              | ND                       | ND                       | 0.77                     | 0.71                     |
| Toluene              | ND                       | 0.50                     | 2.75                     | 2.47                     |
| m,p-Xylene           | ND                       | ND                       | 1.16                     | 0.81                     |
| Styrene              | ND                       | ND                       | 1.69                     | 1.00                     |

ND: Analyte not detected.

Table 2-3  
 Ground Water Equipment Blank and Decon Source Water Blank Summary - April/May 2000  
 HIMCO Dump Superfund Site  
 Elkhart, Indiana

| Sample location<br>Sample number<br>Date sampled<br>Units | WT102C Equipment Blank<br>EDPNO/S017<br>4/25/2000<br>µg/L | WT114A Equipment Blank<br>EECFPI/S058<br>5/3/2000<br>µg/L | Source Water Sample<br>EOOFG/S044<br>5/1/2000<br>µg/L | Equipment Blank<br>2001SK01R01<br>5/1/2000<br>µg/L |
|---|---|---|---|--|
| <b>TOTAL METALS</b>                                       |   |   |   |  |
| Aluminum  | 118 U   | 118 U   | 118 U   | 40 U   |
| Antimony  | 2 U   | 7 U   | 7 U   | 4 U  |
| Arsenic   | 2 U   | 7 U   | 7 U   | 2 U  |
| Barium  | 2.6 U   | 0.8 J   | 3 U   | 2 U  |
| Beryllium   | 2 U   | 2 U   | 2 U   | 0.3 U  |
| Cadmium   | 0.1 U   | 0.3 U   | 0.3 U   | 0.3 U  |
| Calcium   | 648   | 140   | 64 U  | 53.1 J   |
| Chromium  | 6.7 U   | 6.7 U   | 6.7 U   | 3.0 U  |
| Cobalt  | 13.2 U  | 13.2 U  | 13.2 U  | 1 U  |
| Copper  | 3 JB  | 9.3 U   | 9.3 U   | 1.1 J  |
| Iron  | 32.5 JB   | 34.1 J  | 46.5 U  | 4.3 J  |
| Lead  | 2.00 U  | 7 U   | 7.00 U  | 2.0 U  |
| Magnesium   | 197 J   | 21.9 J  | 3.9 J   | 15.1 J   |
| Manganese   | 0.7 J   | 0.8 J   | 1.9 U   | 2 U  |
| Mercury   | 0.10 U  | 0.10 UJ   | 0.10 U  | 0.5 U  |
| Nickel  | 21 U  | 21 U  | 21 U  | 1.2 J  |
| Potassium   | 87.4 U  | 69.9 J  | 217 U   | 219 J  |
| Selenium  | 2 U   | 7 U   | 7 U   | 4 U  |
| Silver  | 11.1 U  | 11.1 U  | 11.1 U  | 1 U  |
| Sodium  | 4160  | 36.4  | 37.5 U  | 21.2 J   |
| Thallium  | 1 U   | 4 U   | 1 U   | 2 U  |
| Vanadium  | 5.1 U   | 5.1 U   | 5.1 U   | 4.3 J  |
| Zinc  | 34.1 J  | 34.1 U  | 34.1 U  | 25 U   |
| Misc Inorganics   |   |   |   |  |
| cyanide   | NA  | NA  | NA  | 8 U  |
| bromide   | NA  | NA  | NA  | 40 J   |
| chloride  | NA  | NA  | NA  | 96500 J  |
| sulfate   | NA  | NA  | NA  | 79300 J  |
| <b>VOLATILE ORGANICS</b>                                  |   |   |   |  |
| 1,2-dichloroethane  | 1 U   | 1 U   | 1 U   | 1  |
| Acetone   | 43  | 5 U   | 5 U   | 5 U  |
| Chloroform  | 15  | 1 U   | 1 U   | 1 U  |
| 2-Butanone  | 11  | 5 U   | 5 U   | 5 U  |
| Bromodichloromethane                                      | 6   | 1 U   | 1 U   | 1 U  |
| Dibromochloromethane                                      | 3   | 1 U   | 1 U   | 1 U  |
| <b>SEMIVOLATILE ORGANICS</b>                              |   |   |   |  |
| di-n-butylphthalate                                       | 5 U   | 5 U   | 5 U   | 3 J  |
| bis(2-Ethylhexyl)phthalate                                | 5 U   | 5 U   | 33  | 3 J  |

-Detected constituents have been shaded.

J: The reported value is estimated.

U: The analyte was not detected at the stated value.

Table 2-2  
Relative Percent Difference of Soil Gas Duplicate Samples - October 1999  
HIMCO Dump Superfund Site  
Elkhart, Indiana

| Sample Location<br>Units: mg/m <sup>3</sup> | TT-56  |        |     | TT-95  |        |     | TT-97  |        |     |
|---|--------|--------|-----|--------|--------|-----|--------|--------|-----|
|   | Result | Result | RPD | Result | Result | RPD | Result | Result | RPD |
| <b>Analyte</b>                              |        |        |     |        |        |     |        |        |     |
| Vinyl Acetate                               | <      | <      | 0   | <      | <      | 0   | <      | <      | 0   |
| 2-Butanone                                  | <      | <      | 0   | <      | <      | 0   | <      | <      | 0   |
| Chloroform                                  | 110    | <      | NC  | <      | <      | 0   | <      | <      | 0   |
| 1,1,1-Trichloroethane                       | <      | <      | 0   | <      | <      | 0   | <      | <      | 0   |
| Carbon Tetrachloride                        | <      | <      | 0   | <      | <      | 0   | <      | <      | 0   |
| Benzene                                     | 380    | <      | NC  | <      | <      | 0   | <      | <      | 0   |
| 1,2-Dichloroethane                          | <      | <      | 0   | <      | <      | 0   | <      | <      | 0   |
| Trichloroethene                             | 6600   | 14000  | 72  | <      | <      | 0   | <      | <      | 0   |
| 1,2-Dichloropropane                         | <      | <      | 0   | <      | <      | 0   | <      | <      | 0   |
| Bromodichloromethane                        | <      | <      | 0   | <      | <      | 0   | <      | <      | 0   |
| trans-1,3-Dichloropropene                   | <      | <      | 0   | <      | <      | 0   | <      | <      | 0   |
| 4-Methyl-2-pentanone                        | <      | <      | 0   | <      | <      | 0   | <      | <      | 0   |
| Toluene                                     | 2800   | 6800   | 83  | 0.83   | 0.48   | 53  | <      | <      | 0   |
| cis-1,3-Dichloropropene                     | <      | <      | 0   | <      | <      | 0   | <      | <      | 0   |
| 1,1,2-Trichloroethane                       | <      | <      | 0   | <      | <      | 0   | <      | <      | 0   |
| Tetrachloroethene                           | 6000   | 34884  | 141 | 1.3    | 1.6    | 21  | 0.82   | 0.69   | 17  |
| 2-Hexanone                                  | <      | <      | 0   | <      | <      | 0   | <      | <      | 0   |
| Dibromochloromethane                        | <      | <      | 0   | <      | <      | 0   | <      | <      | 0   |
| Chlorobenzene                               | <      | <      | 0   | <      | <      | 0   | <      | <      | 0   |
| Ethyl Benzene                               | 1400   | 6400   | 128 | <      | <      | 0   | <      | <      | 0   |
| m,p-Xylene                                  | 900    | 4500   | 133 | <      | <      | 0   | <      | <      | 0   |
| o-Xylene                                    | 270    | 980    | 114 | <      | <      | 0   | <      | <      | 0   |
| Styrene                                     | 90     | <      | NC  | <      | <      | 0   | <      | <      | 0   |
| Bromoform                                   | <      | <      | 0   | <      | <      | 0   | <      | <      | 0   |
| 1,1,2,2-Tetrachloroethane                   | <      | <      | 0   | <      | <      | 0   | <      | <      | 0   |
| 1,3-Dichlorobenzene                         | <      | <      | 0   | <      | <      | 0   | <      | <      | 0   |
| 1,4-Dichlorobenzene                         | 50     | <      | NC  | <      | <      | 0   | <      | <      | 0   |
| 1,2-Dichlorobenzene                         | 3.4    | <      | NC  | <      | <      | 0   | <      | <      | 0   |
| cis-1,2-Dichloroethene                      | 4200   | 2200   | 63  | <      | <      | 0   | <      | <      | 0   |

NC: Not calculated because one of the samples from the duplicate pair was nondetect while the compound was detected in the duplicate.

Shading indicates RPD of greater than 50%.

Table 2-1  
Relative Percent Differences in Ground Water Duplicate Samples - March/April 2000  
HIMCO Dump Superfund Site  
Elkhart, Indiana

| Sample Location<br>Date Sampled<br>Sample number | 54287 Westwood<br>3/16/2000 |               |     | 54305 Westwood<br>4/18/2000 |                |     | WT101A<br>5/3/2000 |                |     | WT112B<br>4/27/2000 |                |     | WT116A<br>5/3/2000 |                |     | 54305 Westwood<br>11/15/2000 |               |     |
|--|-----------------------------|---------------|-----|-----------------------------|----------------|-----|--------------------|----------------|-----|---------------------|----------------|-----|--------------------|----------------|-----|------------------------------|---------------|-----|
|  | S12<br>Result               | R12<br>Result | RPD | SO10<br>Result              | SO11<br>Result | RPD | S050<br>Result     | S051<br>Result | RPD | S033<br>Result      | S034<br>Result | RPD | S053<br>Result     | S054<br>Result | RPD | S02<br>Result                | D02<br>Result | RPD |
| TOTAL METALS (mg/L)                              |                             |               |     |                             |                |     |                    |                |     |                     |                |     |                    |                |     |                              |               |     |
| Aluminum   | <                           | <             | 0   | <                           | <              | 0   | <                  | <              | 0   | <                   | <              | 0   | <                  | <              | 0   | 58.2                         | 53.7          | 8.0 |
| Arsenic  | 7                           | 8             | 13  | <                           | <              | 0   | 5                  | <              | NC  | 5                   | 4              | 22  | <                  | <              | 0   | <                            | <             | 0   |
| Barium   | 63.8                        | 64.5          | 1   | 76.6                        | 63.2           | 19  | 83.1               | 82.4           | 1   | 86.7                | 86             | 1   | 79.9               | 79.6           | 0.4 | 46.9                         | 47.4          | 1.1 |
| Beryllium  | <                           | <             | 0   | <                           | <              | 0   | <                  | <              | 0   | <                   | <              | 0   | 0.1                | <              | NC  | 0.3                          | 0.1           | 100 |
| Calcium  | 93300                       | 92300         | 1   | 205000                      | 173000         | 17  | 258000             | 242000         | 6   | 81800               | 79900          | 2   | 666000             | 685000         | 3   | 129000                       | 129000        | 0   |
| Cobalt   | 10.5                        | <             | NC  | <                           | <              | 0   | <                  | 4              | NC  | <                   | <              | 0   | <                  | 11.5           | NC  | 0.8                          | 0.9           | 12  |
| Copper   | 7.3                         | <             | NC  | 15.2                        | 10.7           | 35  | <                  | <              | 0   | <                   | <              | 0   | 15.8               | 15.5           | 2   | 1                            | 1.4           | 33  |
| Iron   | 5050                        | 5030          | 0.4 | 2790                        | 2270           | 21  | 16300              | 16100          | 1   | 1180                | 1220           | 3   | 31900              | 32400          | 2   | 1840                         | 1720          | 7   |
| Lead   | <                           | <             | 0   | 2                           | 2              | 0   | <                  | <              | 0   | <                   | <              | 0   | 6                  | 13             | 74  | <                            | <             | 0   |
| Magnesium  | 21500                       | 22000         | 2   | 21700                       | 18200          | 18  | 27300              | 27500          | 1   | 21000               | 20900          | 0.5 | 66900              | 66100          | 1   | 14200                        | 14200         | 0   |
| Manganese  | 63.1                        | 59.6          | 6   | 1880                        | 1560           | 19  | 1610               | 1540           | 4   | 93.1                | 94.5           | 1   | 1810               | 1800           | 1   | 1250                         | 1250          | 0   |
| Nickel   | <                           | <             | 0   | <                           | <              | 0   | <                  | <              | 0   | <                   | <              | 0   | <                  | <              | 0   | 3.4                          | 3.6           | 6   |
| Potassium  | 1150                        | 1160          | 1   | 6920                        | 5170           | 29  | 6730               | 6810           | 1   | 1320                | 1380           | 4   | 19600              | 18900          | 4   | 4400                         | 4670          | 6   |
| Vanadium   | <                           | <             | 0   | <                           | <              | 0   | <                  | <              | 0   | <                   | <              | 0   | <                  | <              | 0   | 4.9                          | 3.4           | 36  |
| Sodium   | 14900                       | 14700         | 1   | 92200                       | 73400          | 23  | <                  | 65200          | NC  | 22800               | 23300          | 2   | 161000             | 160000         | 1   | 42300                        | 42700         | 1   |
| Zinc   | 18.9                        | 14.2          | 28  | 39.1                        | 26.9           | 37  | <                  | <              | 0   | <                   | <              | 0   | 178                | 194            | 9   | 14.3                         | 20.3          | 35  |
| MISC. INORGANICS                                 |                             |               |     |                             |                |     |                    |                |     |                     |                |     |                    |                |     |                              |               |     |
| Bromide (µg Br/L)                                | NS                          | NS            | NC  | 70                          | 70             | 0   | 520                | 530            | 2   | 70                  | 70             | 0   | 2380               | 2420           | 2   | NS                           | NS            | NC  |
| Sulfate (mg SO <sub>4</sub> /L)                  | NS                          | NS            | NC  | 152                         | 152            | 0   | 218                | 215            | 1   | 56                  | 56             | 0   | 1260               | 1250           | 1   | NS                           | NS            | NC  |
| VOLATILE ORGANICS (µg/L)                         |                             |               |     |                             |                |     |                    |                |     |                     |                |     |                    |                |     |                              |               |     |
| Ethyl ether                                      | NA                          | NA            |     | NA                          | NA             |     | NA                 | NA             |     | NA                  | NA             |     | NA                 | NA             |     | 26                           | 31            | 18  |
| Dichlorofluoromethane                            | NA                          | NA            |     | NA                          | NA             |     | NA                 | NA             |     | NA                  | NA             |     | NA                 | NA             |     | 5                            | 6             | 18  |
| Vinyl Chloride                                   | <                           | <             | 0   | <                           | <              | 0   | <                  | <              | 0   | <                   | <              | 0   | 1                  | 1              | 0   | <                            | <             | 0   |
| Chloroethane                                     | <                           | <             | 0   | <                           | <              | 0   | <                  | 2              | NC  | <                   | <              | 0   | 1                  | 1              | 0   | <                            | <             | 0   |
| 1,1-Dichloroethane                               | 7                           | 7             | 0   | 3                           | 4              | 29  | 8                  | 8              | 0   | <                   | <              | 0   | <                  | 7              | NC  | 4                            | 4             | 0   |
| cis-1,2-Dichloroethane                           | 0.5                         | 0.5           | 0   | 2                           | 2              | 0   | <                  | <              | 0   | <                   | <              | 0   | 1                  | 1              | 0   | 2                            | 3             | 40  |
| trans-1,2-Dichloroethane                         | <                           | <             | 0   | <                           | <              | 0   | <                  | <              | 0   | <                   | <              | 0   | 1                  | <              | NC  | <                            | <             | 0   |
| 1,2-Dichloroethane                               | 0.7                         | <             | NC  | <                           | <              | 0   | <                  | <              | 0   | <                   | <              | 0   | <                  | <              | 0   | 1                            | 1             | 0   |
| 1,2-Dichloropropane                              | <                           | <             | 0   | 8                           | 9              | 12  | <                  | <              | 0   | <                   | <              | 0   | <                  | 1              | NC  | 8                            | 8             | 0   |
| cis-1,3-Dichloropropene                          | <                           | <             | 0   | <                           | <              | 0   | <                  | <              | 0   | <                   | <              | 0   | 1                  | <              | NC  | <                            | <             | 0   |
| Benzene  | 0.4                         | 0.4           | 0   | <                           | <              | 0   | 2                  | 2              | 0   | <                   | <              | 0   | <                  | <              | 0   | <                            | <             | 0   |
| SEMIVOLATILE ORGANICS (µg/L)                     |                             |               |     |                             |                |     |                    |                |     |                     |                |     |                    |                |     |                              |               |     |
| Phenol   | <                           | <             | 0   | <                           | <              | 0   | <                  | <              | 0   | <                   | <              | 0   | 5                  | <              | NC  | <                            | <             | 0   |
| Diethylphthalate                                 | <                           | <             | 0   | <                           | <              | 0   | 3                  | 4              | 29  | <                   | <              | 0   | <                  | 4              | NC  | <                            | <             | 0   |
| Di-n-butylphthalate                              | <                           | <             | 0   | <                           | <              | 0   | <                  | <              | 0   | <                   | <              | 0   | <                  | <              | 0   | <                            | 14            | NC  |
| bis(2-Ethylhexyl)phthalate                       | <                           | <             | 0   | <                           | <              | 0   | 8                  | 4              | 67  | <                   | <              | 0   | <                  | 2              | NC  | 3                            | 3             | 0   |
| Di-n-octylphthalate                              | <                           | <             | 0   | <                           | <              | 0   | <                  | <              | 0   | <                   | <              | 0   | 5                  | <              | NC  | <                            | <             | 0   |

<: Not detected  
 NC: Not calculated.  
 NA: Not Analyzed.  
 Shading: RPD is greater than 20%

**Quality Control Summary Tables**  
**1999 Soil Gas and 2000 Ground Water Analytical Results**

Sample 11020 (location TT-84) was lost during analysis when the mass spectrometer filament broke.

Cartridge 11021A (TT-61) was analyzed with cartridge 11009B (TT-54) while 11009A (TT-54) and 11021B (TT-61) were analyzed independently. The contaminants detected in the pair 11021A/11009B can likely be attributed to location TT-61. The rationale behind this reasoning lies in the sample collection method. During collection, the soil gas was drawn through sorbent tube "A" before passing through tube "B". At those locations with high concentrations tube "A" would saturate with the residual passing to sorbent tube "B". The sorbent tube from location TT-54 demonstrated only a trace of toluene and carbon disulfide. All other compounds were nondetect. If the levels reported in the pair 11021A/11009B were from location TT-54 the concentrations in the analysis of sorbent tube "A" from that location would have been higher than observed in the pair which contained the residual portion of the sampling. Further supporting this is the concentration of residual tetrachloroethene reported in sorbent tube 11021B (TT-61). Similar relationships are noted among the other contaminants reported. The impact to the data is in the estimation of the concentration detected and not the presence or absence. The corresponding detections have been qualified "J".

Concentrations That Exceed The Calibration Range - The following sample locations contain target analytes at concentrations that exceed the calibration range or saturated the detector. The nature of the matrix combined with the collection and analysis method does not provide for reanalysis of these samples. All applicable results have been qualified "E".

- TT-56, TT-62, TT-63, and TT-64

#### **4.0 Conclusions**

##### **4.1 Data Adequacy**

The data met the data quality objectives for precision, accuracy, representativeness, comparability and completeness and is adequate for the intended. Review of the sample handling and analysis shows that the sample quality has not been negatively impacted by field or lab procedures. Qualifiers have been applied to the results to convey limitations of the analytical results. There are a few instances where data is unusable and those are qualified as rejected "R".

##### **4.2. Restrictions on Data Use**

There are no restrictions on the data use.

No target analytes or TICs were detected in the method blanks.

### 3.2.4 Surrogate and Internal Standard Recoveries

- Sample 11003A&B (location TT-56) had high recoveries for three surrogates and a low recovery for one surrogate. The three internal standards were also out of control on the low side. All detections have been qualified "J" while the nondetections have been qualified "UJ".
- Sample 11107A&B (TT-62) toluene-d8 and 4-bromofluorobenzene surrogate recoveries and chlorobenzene-d5 internal standard recovery were outside QC criteria. All detections have been qualified "J" while the nondetections have been qualified "UJ".
- In sample 11225A&B (TT-78) the recovery of bromofluorobenzene was high. All detections in this sample have been qualified "J".
- In sample 11210A&B (TT-79) the internal standard 1,4-Dichlorobenzene-d4 was out of control low. All detections have been qualified "J" while the nondetections have been qualified "UJ".
- In sample 11215A&B (TT-86) the chlorobenzene-d5 and 1,4-dichlorobenzene-d4 internal standards are low out of control. All detections have been qualified "J" while the nondetections have been qualified "UJ".
- The area for internal standard 1,4-Dichlorobenzene was out of control low in samples 11310A&B (TT-97) and 11208A&B. The area of chlorobenzene-d5 and fluorobenzene in sample 11208A&B was also out of control low. All detections have been qualified "J" while the nondetections have been qualified "UJ".
- The recovery of 1,2-dichloroethane-d4 was out of control high in samples 11316A&B and 11313A&B (TT-89).

### 3.2.5 Matrix Spike/Matrix Spike Duplicates

Due to nature of volatile organic sampling train cartridges it is impossible to spike the samples.

### 3.2.6 Additional Soil Vapor Analysis Information

The laboratory correctly reported all analyte concentrations in units of nanograms per sorbent tube analyzed. For some samples the lab also reported the concentrations in  $\mu\text{g}/\text{m}^3$ . These values are unusable and should be disregarded. The units of  $\mu\text{g}/\text{m}^3$  that appear in the report tables have been calculated using the nanogram value from the laboratory and the volume of the sample collected as measured in the field and are valid for use.

high due to contamination in the preparation blank of 42.2  $\mu\text{g/L}$ . The data has been qualified "BJ".

-The beryllium results for 2001SK01S01 through 2001SK01S04 and 2001SK01D02 are considered estimated and biased high due to contamination from the laboratory preparation blank.

-The sodium result is considered estimated and biased high due to contamination from the laboratory preparation blanks.

-The vanadium and nickel detected results in are considered estimated and biased high due to contamination in the laboratory preparations blank

### **3.1.4 Laboratory Duplicates**

No problems are noted.

### **3.1.5 Internal Standard and Surrogate Recoveries**

No problems are noted.

## **3.2 Soil Vapor**

This section presents an overview of the data validation performed by US EPA-Region 5 contractors using the National Functional Guidelines for Organic Data Review. The data is usable as noted here. Complete details can be found in the validation narratives provided in this appendix.

### **3.2.1 Instrument Calibration**

There are numerous compounds with initial and/or continuing calibration RSD outside criteria. Most of the outliers are minor and resulted in the estimation of data. The affected compounds have been qualified "J" for detected compounds and "UJ" for the undetected compounds. See Appendix I-2 for specific details. In those instances where the exceedance was considerably outside criteria, the data was determined unusable and those analytes have been qualified "R" (rejected) and are discussed here.

- The bromomethane result for samples TT-69 and TT-73 are unusable.

### **3.2.2 Laboratory Control Samples**

No problems were noted.

### **3.2.3 Method Blanks**

**Pesticides and PCBs** -The November 2000 sample set was analyzed for pesticides and PCBs and all samples were reported as nondetect. The reporting limits for for 2001SK01S01, 2001SK01S03 and 2001SK01S04 are considered estimated and biased low due to LCS recover. Several compound reporting limits for this sample delivery group are also estimated and biased low due to low recovery of the control check sample. The matrix spike and spike duplicate recoveries for a few pesticides were high outside control limits. Since the samples were nondetect the data is not qualified.

**Metals** - The mercury results for 2000SY04S01 through S13 are considered estimated and biased slightly high due to matrix spike (MS) recovery of 127.2% and high laboratory control sample (LCS) recovery of 124.3%. No qualification of the data was necessary since mercury was not detected in any of the associated field samples.

-The sodium results for 2000SY04S01 through S13 are considered estimated and biased low due to low MS recovery of 60.77%. The associated data has been qualified "J".

**General Chemistry** - The possible effect of matrix in the analysis of bromide and sulfate could not be determined because the laboratory tested duplicate samples instead of matrix spike duplicates. It was noted in validation that this was due to mingling of SW-846 and CLP methods.

-The sulfate results for 2000SY04S14 through S39 are considered estimated and biased low due to low laboratory fortified blank recovery of 66.5%.

### 3.1.3 Method Blanks

**Volatiles** - Methylene chloride was detected in the method blank associated with sample delivery group EDCJ8 (March 2000 sampling event) at 0.7  $\mu\text{g/L}$ . No samples were impacted.

**Semivolatiles** - Butylbenzylphthalate was detected in the method blank associated with sample delivery group EDCJ8 (March 2000 sampling event) at 3  $\mu\text{g/L}$ . No samples were impacted.

**Metals** - No serious blank problems were noted. Where calibration or preparation blanks contain low concentrations of analytes above the instrument detection limit the sample results are qualified "J" for the detections. No qualification is necessary for the nondetections.

-The calcium results for 2000SY01S01 through S14 and R12 are considered estimated and biased high due to contamination of 158  $\mu\text{g/L}$  in the preparation blank. The corresponding data has been qualified "BJ".

- The iron results for 2000SY04S14 through S39 are considered estimated and biased slightly

- The magnesium results for 2000SY04S31 through S39 are considered estimated and biased high due to CCV recovery of 111.44%. The data has been qualified "J".

-The nickel results for 2000SY04S14 through S39 are considered estimated and biased slightly high due to ICV recovery of 111.68% and CCV recoveries of 111.15%, 110.76%, and 114.01%. The nondetect data has been qualified "UJ" while the detected concentrations are qualified "J".

-The 2001SK01S02, -S03, and -S04 arsenic results and the -S03 lead results from the November 2000 sampling event are considered estimated and biased slightly high due to CCV recovery of 111.7% and 110.9% respectively. Note also that -S02, and -S03 are reported diluted and not detected, yet at a value above the detection limit.

-The 2001SK01S01 through -S04 and -D02 thallium results from the November 2000 sampling event are considered estimated and biased slightly high due to CCV recovery of 118.3%. Note also that these samples and 2001SK01D02 are reported diluted and not detected, yet at a value above the detection limit.

**General Chemistry** - Sulfate results for 2000SY04S44, S49, and S58 are considered estimated due to a low calibration coefficient of 0.992.

### 3.1.2 Laboratory Control Samples/Matrix Spike/Spike Duplicates

**Volatiles** -Laboratory control samples identified as VLCS54 and VLCS55 were used in place of a MS/MSD samples for the low concentration analysis of samples from Sample Delivery Group EDPK9 . All spike recoveries were within limits.

-The 1,2-dichloroethane detected results for the November 2000 samples are considered estimated and biased high due to out-of-control matrix spike duplicated recovery of 113%. Several other recoveries are biased high out-of-control, but the sample results are nondetect so no qualification is necessary.

**Semivolatiles** -Laboratory control sample identified as SLCS60 was used in place of a MS/MSD sample for the low concentration analysis of samples from Sample Delivery Group EDPK9. All spike recoveries were within limits.

-The di-n-butylphthalate results are estimated due to low LCS recovery in the November 2000 data set.

Hexachlorocyclopentadiene, 2,4-Dinitrophenol, 4-nitrophenol, and 4,6-Dinitro-2-methylphenol was noted for Sample Delivery Group E00FL. These analytes have been qualified "UJ" in the accompanying samples.

- Continuing calibration RSD outside criteria for 2,4-Dinitrophenol and 4-nitrophenol was noted for Sample Delivery Group EDCF6. These analytes have been qualified "UJ" in the accompanying samples.

-The tentatively identified compound results for the November 2000 sampling event are estimated due to lack of instrument calibration.

## Metals

-The chromium and zinc results for April/May 2000 samples 2000SY04S40 through S58 are estimated biased slightly high due to continuing calibration verification (CCV) recovery of 110.64% for chromium and 113.22% and 111.19 % for zinc. The data are usable and the detections have been qualified "J".

-The cobalt results for April 2000 samples 2000SY04S01 through S13 are considered estimated and biased slightly high due to initial calibration verification (ICV) recovery of 110.99% and CCV recovery of 110.52%. The data was qualified "UJ" since cobalt was not detected in any of the associated field samples.

-The CCV recovery of 112% for selenium associated with 2000SY04S54 is considered biased slightly high. The nondetect result has been qualified "UJ".

-The iron results for 2000SY04S01 through S13 are considered estimated and biased slightly high due to CCV recovery of 110.94%. The data has been qualified "J".

-The chromium and cobalt results for 2000SY01S01 through S14 and R12 are considered estimated and biased high due to high CCV recoveries of 112.35%, 112.96%, and 112.96% for chromium and 115.4% for cobalt. The nondetect results have been qualified "UJ" based on the CCV. The data reported as detected as been qualified "J".

-The chromium and cobalt results for 2000SY04S31 through S39 are considered estimated and biased slightly high due to high CCV recoveries of 112.63% for chromium and 110.74% for cobalt. The nondetect results have been qualified "UJ" based on the CCV. The data reported as detected as been qualified "J".

-Sample Delivery Group EDPK9 (April 2000 residential well sampling) had percent differences between initial and continuing calibration greater than 20% for a few poor performers associated with samples EDPL7 through L9, EDPM0 through M2, EDPM4, and EDPM5. However, the differences were within the 30% criteria allowed by the low level volatile method. None of these compounds were present in the site samples, therefore the data has been qualified "UJ". The specific compounds are chloromethane, bromoform, 1,2-Dibromo-3-chloropropane.

-Continuing calibration RSD for bromoform of 25.4% and 29.1% was noted in Sample Delivery Groups EDCG0 and EDCF6 respectively. This analyte was not detected in the associated samples, therefore the data was qualified "UJ".

-Continuing calibration RSD for 1,1-Dichloroethene, 2-Butanone, cis-1,2-Dichloropropene, 2-Hexanone, 1,2-Dibromo-3-chloropropane, and 1,2,4-Trichlorobenzene were also just outside criteria with differences ranging from 25.4% to 34.1%. The accompanying data in Sample Delivery Group E00FL has been qualified "UJ" as none of these analytes were detected.

-Continuing calibration RSD for acetone, 2-Butanone, 4-Methyl -2-Pentanone, and 2-Hexanone were outside criteria and the associated samples in Sample Delivery Group E00FL have been qualified "UJ" as none of these analytes were detected.

-Note that all of the 2-chloroethyl vinyl ether results from the November 2000 event were rejected by the laboratory due to the lack of calibration standard solutions.

### **Semivolatiles Organic Compounds**

- Continuing calibration whose corresponding initial calibration has percent relative standard deviations outside primary criteria and continuing calibration with percent difference outside criteria of 20% are noted for a few semivolatile compounds in Sample Delivery Group EDCJ8. The associated samples have been qualified "UJ" since these compound were not detected: 3-Nitroaniline, 2,4,-Dinitrophenol, 4-Nitrophenol, and 2,4-Dinitrotoluene.

- Continuing calibration RSD outside criteria for the compounds 4-chloroaniline, 2,4-Dinitrophenol, 4-nitrophenol, and 3,3'-Dichlorobenzidine was noted for Sample Delivery Group EDCG0. These analytes have been qualified "UJ" in the accompanying samples.

- Continuing calibration RSD outside criteria for the compounds phenol, bis(2-chloroethyl)Ether, 2,2'-Oxybis(1-chloro-propane), 4-chloroaniline, Hexachlorobutadiene,

- **Water Samples for Volatile Analysis** - All water samples were properly preserved with hydrochloric acid to a pH of less than two.

#### 2.3.4. Holding Times

Holding times were met for the extraction and/or analysis of all ground water and soil vapor samples except as noted here.

- Mercury samples S40-S58 from sample delivery group 20000SY04 were analyzed outside the required holding time of 28 days and the results are considered estimated. No mercury was reported, however, the nondetect samples have been qualified UJ.

### 3 Laboratory Control

This section presents an overview of the results of the data validation from the laboratory perspective. The March, April, and May 2000 organic analytical data was validated by US EPA-Region 5 contractors using the National Functional Guidelines for Organic Data Review while the November 2000 organic data was validated by Indiana Department of Environmental Management (IDEM). The inorganic analytical data was validated by the Indiana Department of Environmental Management according to the quality criteria contained in Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW-846, Third Edition, Final Updates 1, 2, 2a, 3, along with the EPA Drinking Water Standards, 1996. The data is generally acceptable for use and only deviations are noted below. Complete details can be found in the validation narratives included in this appendix with the laboratory reports and Form I's.

#### 3.1 Ground Water

##### 3.1.1 Instrument Calibration

##### Volatiles Organic Compounds

-Sample Delivery Group EDCJ8 (March 2000 residential well sampling). There are numerous instances of continuing calibration whose corresponding initial calibration has percent relative standard deviations (RSD) outside primary criteria and continuing calibration with percent difference outside criteria of 20%. The associated samples have been qualified "UJ" for these compounds which were not detected: chloromethane, vinyl chloride, carbon disulfide, 1,1,-Dichloroethane, 1,2,-Dichloroethane, 2-Butanone, bromochloromethane, cis-1,3,-Dichloropropene, trans-1,3,-Dichloropropene, 4-methyl-2-pentanone, 2-Hexanone, toluene, and 1,2-Dibromo-3-chloropropane.

All others were reported as not having detectable levels of the target compounds. The samples that contain an analyte, that is also present in a trip blank are qualified "B" unless the amount present is less than ten times the blank concentration for the common laboratory contaminants or five times the amount present in the blank for all other analytes. If the amount present in the sample is less than ten times the amount present in the blank for the common laboratory contaminants, or five times the amount present in the blank for any other analyte, the result is qualified "UB". The ground water trip blanks are summarized in Table 2-5 and the soil gas trip blanks are summarized in Table 2-6.

- **Ground Water** - Every trip blank except one, sample EDPL9 from 17 April 2000, contained low levels of methylene chloride. The lack of this compound in the field samples along with consistent levels between 0.6 and 5  $\mu\text{g/L}$  may indicate that the water used to prepare the blanks was contaminated with methylene chloride. Trip blank EDCH0, 26 April 2000, contained carbon disulfide at 2 J  $\mu\text{g/L}$  and acetone at 0.8 J  $\mu\text{g/L}$ . The field samples shipped with this blank did not contain these compounds. No data is qualified based on the results of the trip blanks.
- **Soil Vapor** -The trip blank associated with locations sampled 10/22/1999 contained 34 ng of methylene chloride. There is no impact to the sample set since no methylene chloride was detected in the associated samples.

-The trip blank associated with locations sampled on 10/20/1999 contained 13 ng of bromomethane and 140 ng of chloromethane. There is no impact to the sample set since no methylene chloride or bromomethane was detected.

-The trip blank associated with locations sampled on 10/26/1999 contained methylene chloride at 11 ng. The impact to the samples based on the blank is the qualification of samples 11223A&B (TT-80) and 11225A&B (TT-78) as nondetect based on the National Functional Guideline that less than 10x the blank of a common lab contaminant is not considered site related.

### 2.3.3. Sample Preservation

All samples were shipped in coolers that contained sufficient ice to maintain an internal temperature of 4 degrees C.

- **Water Samples for Metals** - The water samples were properly preserved with nitric acid.

Benzene, toluene, xylenes, styrene, and methylene chloride were present in the field blank collected at location TT-96 but not at location TT-71. The presence of these compounds indicates a potential source of these volatiles on site not necessarily associated with the subsurface soil vapor.

The equipment blanks were collected after the field blanks by drawing ambient air through a decontaminated sample collection assembly. Freon 11 and carbon tetrachloride were detected in both equipment blanks at concentrations comparable to the field blanks. Benzene, toluene, xylenes, styrene, and methylene chloride were detected in the equipment blank collected at location TT-96 but not at location TT-71. These concentrations are similar to the field blank from this location. The comparable concentrations of the equipment blanks to the field blanks argue that the source of these contaminants is attributable to the ambient air and not the decontamination process.

### 2.3 Sample Handling and Preservation

This section describes the impact to sample integrity due to handling from the time of collection until analysis. The preservation of samples, length of time in shipment, exposure of samples to environments other than the site and laboratory, and elapsed time between sampling and analysis all have the potential to impact samples.

#### 2.3.1 Chain of Custody and Cooler Receipt

- **Ground Water** - No sample custody or cooler receipt problems were noted for the ground water samples.
- **Soil Vapor Samples** - Cartridges 11214A and 11214B were shipped in each other's containers. The laboratory analyzed the samples in the proper sequence. Since the cartridges were from the same location and analyzed correctly the data is not adversely impacted.

#### 2.3.2. Trip Blanks

Trip blanks accompanied every ground water and soil vapor sample submitted for analysis. The ground water trip blanks were prepared by the lab from analyte free water and shipped to the site with the clean sample containers. These blanks were then included with each cooler that contained water samples for volatile analysis.

For the soil gas samples, an unopened sorbent tube was placed in the cooler on site and kept with the samples from the time of collection, through shipment, and receipt by the laboratory.

Only the blanks that demonstrated contamination or encountered analytical problems are discussed.

**Ground Water March/April/May 2000-** The water equipment blanks were collected by pouring the rinse water over the decontaminated sampling equipment and capturing the run-off. See Table 2-3 for a summary of compounds detected.

No volatile or semivolatile organic compounds were detected in the source blank or the equipment blank collected at location WT114A with the exception of bis (2-ethylhexyl)phthalate (BEHP) in the source blank at a concentration of 33  $\mu\text{g/L}$ . However, the equipment blank collected at location WT102C contained several trihalomethanes (chloroform, bromodichloromethane, dibromochloromethane), acetone, and 2- butanone. Because these analytes were not detected in the source blank their presence is likely due to inadequate rinsing of potable water from the sampling equipment. The field sample collected directly after this QC sample is not impacted since these compounds were not detected.

The source water blank, collected during the April/May 2000 sampling event was free from inorganic contamination with the exception of 3.9  $\mu\text{g/L}$  of magnesium. However, both of the equipment blanks contained inorganic analytes with the higher concentrations noted at location WT102C. Of note is the presence of calcium at 648  $\mu\text{g/L}$ , magnesium at 197  $\mu\text{g/L}$ , and sodium at 4160  $\mu\text{g/L}$  from location WT102C, and 140  $\mu\text{g/L}$  of calcium from location WT114A. All other inorganic analytes were detected concentrations of 69.9  $\mu\text{g/L}$  or less.

The impact to the sample data is negligible.

**Ground Water November 2000-**This blank showed chloride, sulfate, bromide, calcium, copper, iron, potassium, magnesium, sodium, vanadium, nickel, methylene chloride, chloroform, 1,2-dichloroethane, bromodichloromethane, di-n-butylphthalate, and bis(2-ethylhexyl)phthalate contamination. The data has been qualified "B" where the sample concentrations are greater than five times the amount of detected in the blank or "UB" when the amount detected is less than five times the amount reported in the blank. There were no instances of common laboratory contaminant detection in the samples.

**Soil Vapor -** Two equipment blanks and two field blanks were collected during the course of the field sampling effort to evaluate the potential influence on the subsurface samples from sampling equipment and ambient air. See Table 2-4 for a summary of the compounds detected in the ambient air and equipment blanks.

The field blanks were collected by drawing ambient air through a clean sorbent tube at approximately the same flow rate as used to collect the field sample. The air did not have contact with any sampling equipment as it was drawn into the sorbent tube. Freon 11 and carbon tetrachloride were present in both field blanks at concentrations near the sample reporting limit.

The outliers observed were primarily from the sample for metals analysis collected from residential well 54305 Westwood during both the April and November 2000 sampling. Specifically, the sample collected for metals analysis from 54305 Westwood during both the April and November 2000 events showed variability between the primary and duplicate samples of greater than 20% relative percent difference in a small subset of the metals. The concentrations of copper and zinc in both samples as well as the vanadium in November should be considered estimated. However, the impact to data quality is minimal since the results have been estimated for other reasons.

The monitoring well metals analyses demonstrated RPDs of less than 20% with the exception of arsenic at 5 mg/L while the duplicate was reported at 4 mg/L. The greatest difference calculated among all samples is the beryllium result from the November sampling that had an RPD of 100 percent. This difference is not alarming as it can be attributed to the low concentrations reported near the detection limit in the presence of blank contamination.

The few organic compounds that exceed the 20% cutoff also appear to be due to the low concentrations reported. The highest RPDs noted, 67% for bis(2-Ethylhexyl)phthalate and 40 % for cis-1,2-Dichloroethene, were calculated from concentrations of 8  $\mu\text{g/L}$  and 4  $\mu\text{g/L}$ , and from 2  $\mu\text{g/L}$  and 3  $\mu\text{g/L}$  respectively in the primary and duplicate samples. See Table 2-1 for all ground water duplicate sample RPDs.

**Soil Vapor** - The duplicate pairs show excellent precision with the following exception. See Table 2-2 for the soil vapor duplicate sample RPDs.

-Location TT-56: The volatile organic compounds reported in this duplicate pair were present in both the primary and duplicate sample at very high concentrations. Although the RPD ranged from 63 to 141 percent the concentrations reported between the pairs was generally within the same order of magnitude.

## 2.2 Equipment Blanks

Two ground water equipment blanks were collected during the April/May 2000 sampling and two soil gas equipment blanks were collected. For each matrix, one blank was collected near the beginning of the field effort and the other was collected at the conclusion of the investigation. In all instances, the blank samples were collected just prior to using the equipment at the referenced location. Also, a sample of the water used used to decontaminate the ground water sampling equipment was collected directly from the container to assure no analytes were present.

One equipment and one trip blank were collected during the November 2000 sampling.

## DATA QUALITY EVALUATION REPORT

### 1 General

This appendix presents the data usability assessment for soil gas and ground water samples collect in 2000. The soil gas samples were collected by the U.S. Army Corps of Engineers (USACE) Omaha District from October 20 through 29, 1999 and analyzed by Air Toxics Ltd, Folsom, California. The ground water sampling activities conducted from April 17 through May 3, 2000 were performed by the USACE and United States Geological Survey (USGS) with laboratory analysis by PDP Analytical Services, The Woodlands, TX. The ground water sampling conducted March 15-16, 2000 and November 15-16, 2000 was performed by the United States Environmental Protection Agency (USEPA) with laboratory analysis by EnviroSystems Inc., Columbia, MD and USEPA Region 5 Central Regional Laboratory respectively. The ground water samples were analyzed for the Target Compound List Volatiles and Semivolatiles and the Target Analyte List (23 metals plus cyanide) using USEPA Contract Laboratory Program Low Concentration Organic Analytical Services (OIC02.1) and Inorganic Routine Analytical Services. The soil vapor samples were prepared and analyzed using SW-846 Method 5041A/8260B. Quality control (QC) checks were performed routinely during data collection and analysis to verify that the data collected are of appropriate quality for the intended data use and that the data quality objectives were met. All of the data generated was validated using the criteria specified in the QAPP and QAPP addendums in conjunction with either the National Functional Guidelines for Organic and Inorganic Data Review - EPA 540/R-94/012 and /013, or the Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW-846, Third Edition, Final Updates 1, 2, 2a, 3, along with the EPA Drinking Water Standards, 1996 using the criteria established in the approved QAPPs. The laboratory and validation reports are included in this appendix.

### 2 Sample Collection Quality Control

#### 2.1 Field Duplicates

Field duplicates were collected at a rate of approximately 10% from all media sampled. For review purposes a limit of 20% (Relative Percent Difference) RPD was imposed on the ground water data and a limit of 50% RPD was imposed on the soil gas data to evaluate the precision of sample collection. In general, precision was very good and only outliers are discussed below.

**Ground Water** - The ground water field duplicates demonstrate excellent precision between sample pairs for all sampling events with relative percent differences predominantly in the range of zero to ten percent.

**Appendix I-2**

**Data Quality Evaluation Report**  
**for**  
**1999-2000 Supplemental Site Investigations**





# AIR TOXICS LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

180 BLUE RAVINE ROAD, E B  
FOLSOM, CA 95630-4719  
(916) 985-1000 FAX: (916) 985-1020

## CHAIN-OF-CUSTODY RECORD

No. 016616

Page 1 of 1

Contact Person Richard Grabowski  
 Company US Army Corps of Engineers  
 Address 215 N. 17th St. City Omaha State NE Zip 68102  
 Phone (402) 221-7784 FAX (402) 221-7769  
 Collected By: Signature Richard Grabowski

Project Info:  
 P.O. # \_\_\_\_\_  
 Project # \_\_\_\_\_  
 Project Name Hinaco Dump  
Superfund Site

Turn Around Time:  
 Normal  
 Rush \_\_\_\_\_  
 Specify \_\_\_\_\_

| Lab I.D. | Field Sample I.D. | Date & Time   | Analyses Requested    | Canister Pressure / Vacuum |       |         |
|----------|-------------------|---------------|-----------------------|----------------------------|-------|---------|
|          |                   |               |                       | Initial                    | Final | Receipt |
| 01A/B    | 7713A/B           | 12/12/98 0730 | VOST 5041A/8260B/TICS | N/A                        | N/A   |         |
| 02A/B    | 7716A/B           | 12/12/98 0917 | VOST 5041A/8260B/TICS | N/A                        | N/A   |         |
| 03A/B    | 7904A/B           | 12/14/98 0800 | VOST 5041A/8260B/TICS | N/A                        | N/A   |         |
| 04A/B    | 7901A/B           | 12/14/98 1136 | VOST 5041A/8260B/TICS | N/A                        | N/A   |         |
| 05A/B    | 7903A/B           | 12/14/98 1238 | VOST 5041A/8260B/TICS | N/A                        | N/A   |         |
| 06A/B    | 7902A/B           | 12/14/98 1259 | VOST 5041A/8260B/TICS | N/A                        | N/A   |         |

Relinquished By: (Signature) [Signature] Date/Time 12/14/98 1730 Print Name RICHARD J. GRABOWSKI  
 Received By: (Signature) \_\_\_\_\_ Date/Time \_\_\_\_\_  
 Relinquished By: (Signature) \_\_\_\_\_ Date/Time \_\_\_\_\_  
 Received By: (Signature) [Signature] Date/Time 12/16/98 930

Notes:  
End of sample shipment for this job!  


|              |               |                   |            |                     |               |             |  |                |
|--------------|---------------|-------------------|------------|---------------------|---------------|-------------|--|----------------|
| Lab Use Only | Shipper Name  | Air Bill #        | Opened By: | Date/Time           | Temp. (°C)    | Condition   | Custody Seals Intact?  | Work Order #   |
|              | <u>Fed-Ex</u> | <u>7642848873</u> | <u>TS</u>  | <u>12/16/98 930</u> | <u>on ice</u> | <u>Good</u> | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> None <input type="checkbox"/> N/A | <u>9812260</u> |

# AIR TOXICS LTD.

SAMPLE NAME : Lab Blank

ID#: 9812260-07B

Modified VOST 5041A

|            |           |                    |          |
|------------|-----------|--------------------|----------|
| File Name  | 98122309a | Date of Collection | NA       |
| Dil Factor | 1.0       | Date of Analysis   | 12/23/98 |

| Surrogates            | % Recovery | Method Limits |
|-----------------------|------------|---------------|
| 1,2-Dichloroethane-d4 | 112        | 69-112        |
| Toluene-d8            | 106        | 72-134        |
| 4-Bromofluorobenzene  | 119 Q      | 78-119        |
| Dibromofluoromethane  | 111        | 70-130        |

# AIR TOXICS LTD.

SAMPLE NAME : Lab Blank

ID#: 9812260-07B

Modified VOST 5041A

|              |          |                            |
|--------------|----------|----------------------------|
| File Name:   | 9122309a | Date of Collection: NA     |
| Dil. Factor: | 1.0      | Date of Analysis: 12/23/98 |

| Compound                         | Det. Limit (nG) | Amount (nG)  |
|----------------------------------|-----------------|--------------|
| Chloromethane                    | 10              | Not Detected |
| Vinyl Chloride                   | 5.0             | Not Detected |
| Bromomethane                     | 10              | Not Detected |
| Chloroethane                     | 5.0             | Not Detected |
| 1,1-Dichloroethene               | 5.0             | Not Detected |
| Carbon Disulfide                 | 5.0             | Not Detected |
| Acetone                          | 50              | Not Detected |
| Methylene Chloride               | 5.0             | Not Detected |
| trans-1,2-Dichloroethene         | 5.0             | Not Detected |
| 1,1-Dichloroethane               | 5.0             | Not Detected |
| Vinyl Acetate                    | 10              | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 50              | Not Detected |
| Chloroform                       | 5.0             | Not Detected |
| 1,1,1-Trichloroethane            | 5.0             | Not Detected |
| Carbon Tetrachloride             | 5.0             | Not Detected |
| Benzene                          | 5.0             | Not Detected |
| 1,2-Dichloroethane               | 5.0             | Not Detected |
| Trichloroethene                  | 5.0             | Not Detected |
| 1,2-Dichloropropane              | 5.0             | Not Detected |
| Bromodichloromethane             | 5.0             | Not Detected |
| trans-1,3-Dichloropropene        | 5.0             | Not Detected |
| 4-Methyl-2-pentanone             | 10              | Not Detected |
| Toluene                          | 5.0             | Not Detected |
| cis-1,3-Dichloropropene          | 5.0             | Not Detected |
| 1,1,2-Trichloroethane            | 5.0             | Not Detected |
| Tetrachloroethene                | 5.0             | Not Detected |
| 2-Hexanone                       | 10              | Not Detected |
| Dibromochloromethane             | 5.0             | Not Detected |
| Chlorobenzene                    | 5.0             | Not Detected |
| Ethyl Benzene                    | 5.0             | Not Detected |
| m,p-Xylene                       | 5.0             | Not Detected |
| o-Xylene                         | 5.0             | Not Detected |
| Styrene                          | 5.0             | Not Detected |
| Bromoform                        | 5.0             | Not Detected |
| 1,1,2,2-Tetrachloroethane        | 5.0             | Not Detected |
| cis-1,2-Dichloroethene           | 5.0             | Not Detected |

**TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported**

| Compound        | CAS Number | Match Quality | Amount (nG) |
|-----------------|------------|---------------|-------------|
| None Identified |            |               |             |
| None Identified |            |               |             |

Q = Exceeds Quality Control limits.

Container Type: NA

# AIR TOXICS LTD.

SAMPLE NAME : Lab Blank

ID#: 9812260-07A

Modified VOST 5041A

|                  |         |                     |          |
|------------------|---------|---------------------|----------|
| File Name:       | 9121704 | Date of Collection: | NA       |
| Dilution Factor: | 1.0     | Date of Analysis:   | 12/17/98 |

| Surrogates            | % Recovery | Method Limits |
|-----------------------|------------|---------------|
| 1,2-Dichloroethane-d4 | 103        | 69-112        |
| Toluene-d8            | 108        | 72-134        |
| 4-Bromofluorobenzene  | 122 Q      | 78-119        |
| Dibromofluoromethane  | 112        | 70-130        |

# AIR TOXICS LTD.

SAMPLE NAME : Lab Blank

ID#: 9812260-07A

Modified VOST 5041A

|              |         |                            |
|--------------|---------|----------------------------|
| File Name:   | S121704 | Date of Collection: NA     |
| Dil. Factor: | 1.0     | Date of Analysis: 12/17/98 |

| Compound                         | Det. Limit (nG) | Amount (nG)  |
|----------------------------------|-----------------|--------------|
| Chloromethane                    | 10              | Not Detected |
| Vinyl Chloride                   | 5.0             | Not Detected |
| Bromomethane                     | 10              | 11           |
| Chloroethane                     | 5.0             | Not Detected |
| 1,1-Dichloroethene               | 5.0             | Not Detected |
| Carbon Disulfide                 | 5.0             | Not Detected |
| Acetone                          | 50              | Not Detected |
| Methylene Chloride               | 5.0             | Not Detected |
| trans-1,2-Dichloroethene         | 5.0             | Not Detected |
| 1,1-Dichloroethane               | 5.0             | Not Detected |
| Vinyl Acetate                    | 10              | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 50              | Not Detected |
| Chloroform                       | 5.0             | Not Detected |
| 1,1,1-Trichloroethane            | 5.0             | Not Detected |
| Carbon Tetrachloride             | 5.0             | Not Detected |
| Benzene                          | 5.0             | Not Detected |
| 1,2-Dichloroethane               | 5.0             | Not Detected |
| Trichloroethene                  | 5.0             | Not Detected |
| 1,2-Dichloropropane              | 5.0             | Not Detected |
| Bromodichloromethane             | 5.0             | Not Detected |
| trans-1,3-Dichloropropene        | 5.0             | Not Detected |
| 4-Methyl-2-pentanone             | 10              | Not Detected |
| Toluene                          | 5.0             | Not Detected |
| cis-1,3-Dichloropropene          | 5.0             | Not Detected |
| 1,1,2-Trichloroethane            | 5.0             | Not Detected |
| Tetrachloroethene                | 5.0             | Not Detected |
| 2-Hexanone                       | 10              | Not Detected |
| Dibromochloromethane             | 5.0             | Not Detected |
| Chlorobenzene                    | 5.0             | Not Detected |
| Ethyl Benzene                    | 5.0             | Not Detected |
| m,p-Xylene                       | 5.0             | Not Detected |
| o-Xylene                         | 5.0             | Not Detected |
| Styrene                          | 5.0             | Not Detected |
| Bromoform                        | 5.0             | Not Detected |
| 1,1,2,2-Tetrachloroethane        | 5.0             | Not Detected |
| cis-1,2-Dichloroethene           | 5.0             | Not Detected |

### TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported

| Compound        | CAS Number | Match Quality | Amount (nG) |
|-----------------|------------|---------------|-------------|
| None Identified |            |               |             |
| None Identified |            |               |             |

Q = Exceeds Quality Control limits.

Container Type: NA

# AIR TOXICS LTD.

SAMPLE NAME : 7902 A&B

ID#: 9812260-06A/B

Modified VOST 5041A

|            |         |                    |          |
|------------|---------|--------------------|----------|
| File Name  | 9122312 | Date of Collection | 12/14/98 |
| Dil Factor | 1.0     | Date of Analysis   | 12/23/98 |

| TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported |            |               |             |
|--|------------|---------------|-------------|
| Compound   | CAS Number | Match Quality | Amount (nG) |
| Bicyclo[3.1.1]heptane, 6,6-dimethyl-2-me           | 18172-67-3 | 91 %          | 3800        |
| .beta.-Pinene                                      | 127-91-3   | Manual ID     | 230         |
| D-Limonene   | 5989-27-5  | 94 %          | 1500        |

Q = Exceeds Quality Control limits.

Container Type: VOST Tube

| Surrogates            | % Recovery | Method Limits |
|-----------------------|------------|---------------|
| 1,2-Dichloroethane-d4 | 100        | 69-112        |
| Toluene-d8            | 120        | 72-134        |
| 4-Bromofluorobenzene  | 157 Q      | 78-119        |
| Dibromofluoromethane  | 111        | 70-130        |

# AIR TOXICS LTD.

SAMPLE NAME : 7902 A&B

ID#: 9812260-06A/B

Modified VOST 5041A

|             |         |                    |          |
|-------------|---------|--------------------|----------|
| File Name   | 9122312 | Date of Collection | 12/14/98 |
| Dil. Factor | 1.0     | Date of Analysis   | 12/23/98 |

| Compound                         | Det. Limit (nG) | Amount (nG)  |
|----------------------------------|-----------------|--------------|
| Chloromethane                    | 10              | Not Detected |
| Vinyl Chloride                   | 5.0             | Not Detected |
| Bromomethane                     | 10              | Not Detected |
| Chloroethane                     | 5.0             | Not Detected |
| 1,1-Dichloroethene               | 5.0             | Not Detected |
| Carbon Disulfide                 | 5.0             | 14           |
| Acetone                          | 50              | Not Detected |
| Methylene Chloride               | 5.0             | Not Detected |
| trans-1,2-Dichloroethene         | 5.0             | Not Detected |
| 1,1-Dichloroethane               | 5.0             | 21           |
| Vinyl Acetate                    | 10              | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 50              | Not Detected |
| Chloroform                       | 5.0             | 23           |
| 1,1,1-Trichloroethane            | 5.0             | 75           |
| Carbon Tetrachloride             | 5.0             | Not Detected |
| Benzene                          | 5.0             | Not Detected |
| 1,2-Dichloroethane               | 5.0             | Not Detected |
| Trichloroethene                  | 5.0             | Not Detected |
| 1,2-Dichloropropane              | 5.0             | Not Detected |
| Bromodichloromethane             | 5.0             | Not Detected |
| trans-1,3-Dichloropropene        | 5.0             | Not Detected |
| 4-Methyl-2-pentanone             | 10              | Not Detected |
| Toluene                          | 5.0             | 18           |
| cis-1,3-Dichloropropene          | 5.0             | Not Detected |
| 1,1,2-Trichloroethane            | 5.0             | Not Detected |
| Tetrachloroethene                | 5.0             | 120          |
| 2-Hexanone                       | 10              | Not Detected |
| Dibromochloromethane             | 5.0             | Not Detected |
| Chlorobenzene                    | 5.0             | Not Detected |
| Ethyl Benzene                    | 5.0             | Not Detected |
| m,p-Xylene                       | 5.0             | Not Detected |
| o-Xylene                         | 5.0             | Not Detected |
| Styrene                          | 5.0             | Not Detected |
| Bromoform                        | 5.0             | Not Detected |
| 1,1,2,2-Tetrachloroethane        | 5.0             | Not Detected |
| cis-1,2-Dichloroethene           | 5.0             | Not Detected |

### TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported

| Compound                                 | CAS Number | Match Quality | Amount (nG) |
|--|------------|---------------|-------------|
| Methane, oxybis-                         | 115-10-6   | Manual ID     | 220         |
| Methane, trichlorofluoro-                | 75-69-4    | 78 %          | 50          |
| Methane, dimethoxy-                      | 109-87-5   | 78 %          | 110         |
| Cyclohexene, 4-methylene-1-(1-methylethy | 99-84-3    | 89 %          | 30          |
| .alpha.-Pinene                           | 80-56-8    | 97 %          | 34000       |
| Camphene                                 | 79-92-5    | 83 %          | 340         |

# AIR TOXICS LTD.

SAMPLE NAME : 7903 A&B

ID#: 9812260-05A/B

Modified VOST 5041A

|              |         |                     |          |
|--------------|---------|---------------------|----------|
| File Name:   | 9122311 | Date of Collection: | 12/14/98 |
| Dil. Factor: | 1.0     | Date of Analysis:   | 12/23/98 |

## TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported

| Compound   | CAS Number | Match Quality | Amount (nG) |
|------------|------------|---------------|-------------|
| D-Limonene | 5989-27-5  | 94 %          | 2200        |

Q = Exceeds Quality Control limits.

Container Type: VOST Tube

| Surrogates            | % Recovery | Method Limits |
|-----------------------|------------|---------------|
| 1,2-Dichloroethane-d4 | 122 Q      | 69-112        |
| Toluene-d8            | 110        | 72-134        |
| 4-Bromofluorobenzene  | 189 Q      | 78-119        |
| Dibromofluoromethane  | 123        | 70-130        |

# AIR TOXICS LTD.

SAMPLE NAME : 7903 A&B

ID#: 9812260-05A/B

Modified VOST 5041A

|              |         |                     |          |
|--------------|---------|---------------------|----------|
| File Name:   | 9122311 | Date of Collection: | 12/14/98 |
| Dil. Factor: | 1.0     | Date of Analysis:   | 12/23/98 |

| Compound                         | Det. Limit (nG) | Amount (nG)  |
|----------------------------------|-----------------|--------------|
| Chloromethane                    | 10              | Not Detected |
| Vinyl Chloride                   | 5.0             | Not Detected |
| Bromomethane                     | 10              | Not Detected |
| Chloroethane                     | 5.0             | Not Detected |
| 1,1-Dichloroethene               | 5.0             | Not Detected |
| Carbon Disulfide                 | 5.0             | 30           |
| Acetone                          | 50              | 52           |
| Methylene Chloride               | 5.0             | Not Detected |
| trans-1,2-Dichloroethene         | 5.0             | Not Detected |
| 1,1-Dichloroethane               | 5.0             | 34           |
| Vinyl Acetate                    | 10              | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 50              | Not Detected |
| Chloroform                       | 5.0             | 37           |
| 1,1,1-Trichloroethane            | 5.0             | 130          |
| Carbon Tetrachloride             | 5.0             | Not Detected |
| Benzene                          | 5.0             | 5.9          |
| 1,2-Dichloroethane               | 5.0             | Not Detected |
| Trichloroethene                  | 5.0             | 5.2          |
| 1,2-Dichloropropane              | 5.0             | Not Detected |
| Bromodichloromethane             | 5.0             | Not Detected |
| trans-1,3-Dichloropropene        | 5.0             | Not Detected |
| 4-Methyl-2-pentanone             | 10              | Not Detected |
| Toluene                          | 5.0             | 81           |
| cis-1,3-Dichloropropene          | 5.0             | Not Detected |
| 1,1,2-Trichloroethane            | 5.0             | Not Detected |
| Tetrachloroethene                | 5.0             | 160          |
| 2-Hexanone                       | 10              | Not Detected |
| Dibromochloromethane             | 5.0             | Not Detected |
| Chlorobenzene                    | 5.0             | Not Detected |
| Ethyl Benzene                    | 5.0             | 6.7          |
| m,p-Xylene                       | 5.0             | 12           |
| o-Xylene                         | 5.0             | Not Detected |
| Styrene                          | 5.0             | Not Detected |
| Bromoform                        | 5.0             | Not Detected |
| 1,1,2,2-Tetrachloroethane        | 5.0             | Not Detected |
| cis-1,2-Dichloroethene           | 5.0             | Not Detected |

### TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported

| Compound                                 | CAS Number | Match Quality | Amount (nG) |
|--|------------|---------------|-------------|
| Methane, trichlorofluoro-                | 75-69-4    | 90 %          | 47          |
| Cyclohexene, 4-methylene-1-(1-methylethy | 99-84-3    | 93 %          | 1200        |
| .alpha.-Pinene                           | 80-56-8    | 97 %          | 44000       |
| Camphene                                 | 79-92-5    | 93 %          | 510         |
| Bicyclo[3.1.1]heptane, 6,6-dimethyl-2-me | 18172-67-3 | 94 %          | 3300        |
| .beta.-Myrcene                           | 123-35-3   | 72 %          | 460         |

# AIR TOXICS LTD.

SAMPLE NAME : 7901 A&B

ID#: 9812260-04A/B

Modified VOST 5041A

|             |         |                     |          |
|-------------|---------|---------------------|----------|
| File Name:  | 9122310 | Date of Collection: | 12/14/98 |
| Dil Factor: | 1.0     | Date of Analysis:   | 12/23/98 |

| Surrogates            | % Recovery | Method Limits |
|-----------------------|------------|---------------|
| 1,2-Dichloroethane-d4 | 111        | 69-112        |
| Toluene-d8            | 119        | 72-134        |
| 4-Bromofluorobenzene  | 124 Q      | 78-119        |
| Dibromofluoromethane  | 98         | 70-130        |

# AIR TOXICS LTD.

SAMPLE NAME : 7901 A&B

ID#: 9812260-04A/B

Modified VOST 5041A

|              |         |                     |          |
|--------------|---------|---------------------|----------|
| File Name:   | 9122310 | Date of Collection: | 12/14/98 |
| Dil. Factor: | 1.0     | Date of Analysis:   | 12/23/98 |

| Compound                         | Det. Limit (nG) | Amount (nG)  |
|----------------------------------|-----------------|--------------|
| Chloromethane                    | 10              | Not Detected |
| Vinyl Chloride                   | 5.0             | Not Detected |
| Bromomethane                     | 10              | 14           |
| Chloroethane                     | 5.0             | Not Detected |
| 1,1-Dichloroethene               | 5.0             | Not Detected |
| Carbon Disulfide                 | 5.0             | 27           |
| Acetone                          | 50              | Not Detected |
| Methylene Chloride               | 5.0             | Not Detected |
| trans-1,2-Dichloroethene         | 5.0             | Not Detected |
| 1,1-Dichloroethane               | 5.0             | 150          |
| Vinyl Acetate                    | 10              | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 50              | Not Detected |
| Chloroform                       | 5.0             | 53           |
| 1,1,1-Trichloroethane            | 5.0             | 1500 E       |
| Carbon Tetrachloride             | 5.0             | Not Detected |
| Benzene                          | 5.0             | Not Detected |
| 1,2-Dichloroethane               | 5.0             | Not Detected |
| Trichloroethene                  | 5.0             | Not Detected |
| 1,2-Dichloropropane              | 5.0             | Not Detected |
| Bromodichloromethane             | 5.0             | Not Detected |
| trans-1,3-Dichloropropene        | 5.0             | Not Detected |
| 4-Methyl-2-pentanone             | 10              | Not Detected |
| Toluene                          | 5.0             | 27           |
| cis-1,3-Dichloropropene          | 5.0             | Not Detected |
| 1,1,2-Trichloroethane            | 5.0             | Not Detected |
| Tetrachloroethene                | 5.0             | 45           |
| 2-Hexanone                       | 10              | Not Detected |
| Dibromochloromethane             | 5.0             | Not Detected |
| Chlorobenzene                    | 5.0             | Not Detected |
| Ethyl Benzene                    | 5.0             | Not Detected |
| m,p-Xylene                       | 5.0             | Not Detected |
| o-Xylene                         | 5.0             | Not Detected |
| Styrene                          | 5.0             | Not Detected |
| Bromoform                        | 5.0             | Not Detected |
| 1,1,2,2-Tetrachloroethane        | 5.0             | Not Detected |
| cis-1,2-Dichloroethene           | 5.0             | Not Detected |

### TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported

| Compound                  | CAS Number | Match Quality | Amount (nG) |
|---------------------------|------------|---------------|-------------|
| Methane, trichlorofluoro- | 75-69-4    | 83 %          | 260         |

E = Exceeds instrument calibration range.

Q = Exceeds Quality Control limits.

Container Type: VOST Tube

# AIR TOXICS LTD.

SAMPLE NAME : 7904 A&B

ID#: 9812260-03A/B

Modified VOST 5041A

|              |         |                     |          |
|--------------|---------|---------------------|----------|
| File Name:   | 9121707 | Date of Collection: | 12/14/98 |
| Dil. Factor: | 1.0     | Date of Analysis:   | 12/17/98 |

| Surrogates            | % Recovery | Method Limits |
|-----------------------|------------|---------------|
| 1,2-Dichloroethane-d4 | 103        | 69-112        |
| Toluene-d8            | 111        | 72-134        |
| 4-Bromofluorobenzene  | 105        | 78-119        |
| Dibromofluoromethane  | 93         | 70-130        |

# AIR TOXICS LTD.

SAMPLE NAME : 7904 A&B

ID#: 9812260-03A/B

Modified VOST 5041A

|              |         |                     |          |
|--------------|---------|---------------------|----------|
| File Name:   | 9121707 | Date of Collection: | 12/14/98 |
| Dil. Factor: | 1.0     | Date of Analysis:   | 12/17/98 |

| Compound                         | Det. Limit (nG) | Amount (nG)  |
|----------------------------------|-----------------|--------------|
| Chloromethane                    | 10              | Not Detected |
| Vinyl Chloride                   | 5.0             | Not Detected |
| Bromomethane                     | 10              | Not Detected |
| Chloroethane                     | 5.0             | Not Detected |
| 1,1-Dichloroethene               | 5.0             | Not Detected |
| Carbon Disulfide                 | 5.0             | Not Detected |
| Acetone                          | 50              | Not Detected |
| Methylene Chloride               | 5.0             | Not Detected |
| trans-1,2-Dichloroethene         | 5.0             | Not Detected |
| 1,1-Dichloroethane               | 5.0             | Not Detected |
| Vinyl Acetate                    | 10              | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 50              | Not Detected |
| Chloroform                       | 5.0             | Not Detected |
| 1,1,1-Trichloroethane            | 5.0             | Not Detected |
| Carbon Tetrachloride             | 5.0             | Not Detected |
| Benzene                          | 5.0             | Not Detected |
| 1,2-Dichloroethane               | 5.0             | Not Detected |
| Trichloroethene                  | 5.0             | Not Detected |
| 1,2-Dichloropropane              | 5.0             | Not Detected |
| Bromodichloromethane             | 5.0             | Not Detected |
| trans-1,3-Dichloropropene        | 5.0             | Not Detected |
| 4-Methyl-2-pentanone             | 10              | Not Detected |
| Toluene                          | 5.0             | Not Detected |
| cis-1,3-Dichloropropene          | 5.0             | Not Detected |
| 1,1,2-Trichloroethane            | 5.0             | Not Detected |
| Tetrachloroethene                | 5.0             | Not Detected |
| 2-Hexanone                       | 10              | Not Detected |
| Dibromochloromethane             | 5.0             | Not Detected |
| Chlorobenzene                    | 5.0             | Not Detected |
| Ethyl Benzene                    | 5.0             | Not Detected |
| m,p-Xylene                       | 5.0             | Not Detected |
| o-Xylene                         | 5.0             | Not Detected |
| Styrene                          | 5.0             | Not Detected |
| Bromoform                        | 5.0             | Not Detected |
| 1,1,2,2-Tetrachloroethane        | 5.0             | Not Detected |
| cis-1,2-Dichloroethene           | 5.0             | Not Detected |

**TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported**

| Compound        | CAS Number | Match Quality | Amount (nG) |
|-----------------|------------|---------------|-------------|
| None Identified |            |               |             |

Container Type: VOST Tube

| Surrogates | % Recovery | Method Limits |
|------------|------------|---------------|
|            |            |               |

# AIR TOXICS LTD.

SAMPLE NAME : 7716 A&B

ID#: 9812260-02A/B

Modified VOST 5041A

|            |         |                    |          |
|------------|---------|--------------------|----------|
| File Name  | 9121706 | Date of Collection | 12/12/98 |
| Dil Factor | 1.0     | Date of Analysis   | 12/17/98 |

## TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported

| Compound                                 | CAS Number | Match Quality | Amount (nG) |
|--|------------|---------------|-------------|
| Benzene, butyl-                          | 104-51-8   | Manual ID     | 91          |
| Bicyclo[2.2.1]heptane, 2,2,3-trimethyl-, | 20536-40-7 | 93 %          | 96          |
| D-Limonene                               | 5989-27-5  | 94 %          | 640         |
| Benzene, methyl(1-methylethyl)-          | 25155-15-1 | 91 %          | 250         |

Q = Exceeds Quality Control limits.

Container Type: VOST Tube

| Surrogates            | % Recovery | Method Limits |
|-----------------------|------------|---------------|
| 1,2-Dichloroethane-d4 | 111        | 69-112        |
| Toluene-d8            | 105        | 72-134        |
| 4-Bromofluorobenzene  | 120 Q      | 78-119        |
| Dibromofluoromethane  | 96         | 70-130        |

# AIR TOXICS LTD.

SAMPLE NAME : 7716 A&B

ID#: 9812260-02A/B

Modified VOST 5041A

|             |         |                    |          |
|-------------|---------|--------------------|----------|
| File Name   | 9121706 | Date of Collection | 12/12/98 |
| Dil. Factor | 1.0     | Date of Analysis   | 12/17/98 |

| Compound                         | Det. Limit (nG) | Amount (nG)  |
|----------------------------------|-----------------|--------------|
| Chloromethane                    | 10              | Not Detected |
| Vinyl Chloride                   | 5.0             | Not Detected |
| Bromomethane                     | 10              | Not Detected |
| Chloroethane                     | 5.0             | Not Detected |
| 1,1-Dichloroethene               | 5.0             | Not Detected |
| Carbon Disulfide                 | 5.0             | 25           |
| Acetone                          | 50              | Not Detected |
| Methylene Chloride               | 5.0             | Not Detected |
| trans-1,2-Dichloroethene         | 5.0             | Not Detected |
| 1,1-Dichloroethane               | 5.0             | 110          |
| Vinyl Acetate                    | 10              | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 50              | Not Detected |
| Chloroform                       | 5.0             | 5.2          |
| 1,1,1-Trichloroethane            | 5.0             | 140          |
| Carbon Tetrachloride             | 5.0             | Not Detected |
| Benzene                          | 5.0             | 23           |
| 1,2-Dichloroethane               | 5.0             | Not Detected |
| Trichloroethene                  | 5.0             | 64           |
| 1,2-Dichloropropane              | 5.0             | Not Detected |
| Bromodichloromethane             | 5.0             | Not Detected |
| trans-1,3-Dichloropropene        | 5.0             | Not Detected |
| 4-Methyl-2-pentanone             | 10              | Not Detected |
| Toluene                          | 5.0             | 160          |
| cis-1,3-Dichloropropene          | 5.0             | Not Detected |
| 1,1,2-Trichloroethane            | 5.0             | Not Detected |
| Tetrachloroethene                | 5.0             | 110          |
| 2-Hexanone                       | 10              | Not Detected |
| Dibromochloromethane             | 5.0             | Not Detected |
| Chlorobenzene                    | 5.0             | Not Detected |
| Ethyl Benzene                    | 5.0             | 8.5          |
| m,p-Xylene                       | 5.0             | Not Detected |
| o-Xylene                         | 5.0             | Not Detected |
| Styrene                          | 5.0             | Not Detected |
| Bromoform                        | 5.0             | Not Detected |
| 1,1,2,2-Tetrachloroethane        | 5.0             | Not Detected |
| cis-1,2-Dichloroethene           | 5.0             | Not Detected |

### TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported

| Compound                                 | CAS Number | Match Quality | Amount (nG) |
|--|------------|---------------|-------------|
| Methane, trichlorofluoro-                | 75-69-4    | 90 %          | 230         |
| Octane                                   | 111-65-9   | 94 %          | 220         |
| Cyclopropane, 1,1-dimethyl-2-(3-methyl-1 | 68998-21-0 | 91 %          | 65          |
| Cyclohexene, 4-methylene-1-(1-methylethy | 99-84-3    | 93 %          | 1100        |
| .alpha.-Pinene                           | 80-56-8    | 96 %          | 10000       |
| Bicyclo[3.1.0]hexane, 6-isopropylidene-1 | 24524-57-0 | 91 %          | 2600        |

# AIR TOXICS LTD.

SAMPLE NAME : 7111 A&B

ID#: 9811313-01A/B

Modified VOST 5041A

|              |         |                     |          |
|--------------|---------|---------------------|----------|
| File Name:   | 9113043 | Date of Collection: | 11/17/98 |
| Dil. Factor: | 1.3     | Date of Analysis:   | 11/30/98 |

| Surrogates            | % Recovery | Method Limits |
|-----------------------|------------|---------------|
| 1,2-Dichloroethane-d4 | 95         | 69-112        |
| Toluene-d8            | 108        | 72-134        |
| 4-Bromofluorobenzene  | 108        | 78-119        |
| Dibromofluoromethane  | 98         | 70-130        |

# AIR TOXICS LTD.

SAMPLE NAME : 7111 A&B

ID#: 9811313-01A/B

Modified VOST 5041A

|              |         |                     |          |
|--------------|---------|---------------------|----------|
| File Name:   | 9113043 | Date of Collection: | 11/17/98 |
| Dil. Factor: | 1.3     | Date of Analysis:   | 11/30/98 |

| Compound                         | Det. Limit (nG) | Amount (nG)  |
|----------------------------------|-----------------|--------------|
| Chloromethane                    | 13              | Not Detected |
| Vinyl Chloride                   | 6.5             | Not Detected |
| Bromomethane                     | 13              | Not Detected |
| Chloroethane                     | 6.5             | Not Detected |
| 1,1-Dichloroethene               | 6.5             | Not Detected |
| Carbon Disulfide                 | 6.5             | 7.3          |
| Acetone                          | 65              | Not Detected |
| Methylene Chloride               | 6.5             | Not Detected |
| trans-1,2-Dichloroethene         | 6.5             | Not Detected |
| 1,1-Dichloroethane               | 6.5             | Not Detected |
| Vinyl Acetate                    | 13              | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 65              | Not Detected |
| Chloroform                       | 6.5             | Not Detected |
| 1,1,1-Trichloroethane            | 6.5             | Not Detected |
| Carbon Tetrachloride             | 6.5             | Not Detected |
| Benzene                          | 6.5             | 37           |
| 1,2-Dichloroethane               | 6.5             | Not Detected |
| Trichloroethene                  | 6.5             | Not Detected |
| 1,2-Dichloropropane              | 6.5             | Not Detected |
| Bromodichloromethane             | 6.5             | Not Detected |
| trans-1,3-Dichloropropene        | 6.5             | Not Detected |
| 4-Methyl-2-pentanone             | 13              | Not Detected |
| Toluene                          | 6.5             | 7.6          |
| cis-1,3-Dichloropropene          | 6.5             | Not Detected |
| 1,1,2-Trichloroethane            | 6.5             | Not Detected |
| Tetrachloroethene                | 6.5             | 22           |
| 2-Hexanone                       | 13              | Not Detected |
| Dibromochloromethane             | 6.5             | Not Detected |
| Chlorobenzene                    | 6.5             | Not Detected |
| Ethyl Benzene                    | 6.5             | 6.5          |
| m,p-Xylene                       | 6.5             | 14           |
| o-Xylene                         | 6.5             | Not Detected |
| Styrene                          | 6.5             | Not Detected |
| Bromoform                        | 6.5             | Not Detected |
| 1,1,2,2-Tetrachloroethane        | 6.5             | Not Detected |
| cis-1,2-Dichloroethene           | 6.5             | Not Detected |

**TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported**

| Compound        | CAS Number | Match Quality | Amount (nG) |
|-----------------|------------|---------------|-------------|
| None Identified |            |               |             |
| None Identified |            |               |             |

Container Type: VOST Tube

# AIR TOXICS LTD.

SAMPLE NAME : Lab Blank

ID#: 9811284-11A

Modified VOST 5041A

|        |     |                    |
|--------|-----|--------------------|
| File # | 221 | Date of Collection |
| File # |     | Date of Analysis   |

| Compound                         | Det. Limit (nG) | Amount (nG)  |
|----------------------------------|-----------------|--------------|
| Chloromethane                    | 10              | Not Detected |
| Vinyl Chloride                   | 5.0             | Not Detected |
| Bromomethane                     | 10              | Not Detected |
| Chloroethane                     | 5.0             | Not Detected |
| 1,1-Dichloroethene               | 5.0             | Not Detected |
| Carbon Disulfide                 | 5.0             | Not Detected |
| Acetone                          | 50              | Not Detected |
| Methylene Chloride               | 5.0             | Not Detected |
| trans-1,2-Dichloroethene         | 5.0             | Not Detected |
| 1,1-Dichloroethane               | 5.0             | Not Detected |
| Vinyl Acetate                    | 10              | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 50              | Not Detected |
| Chloroform                       | 5.0             | Not Detected |
| 1,1,1-Trichloroethane            | 5.0             | Not Detected |
| Carbon Tetrachloride             | 5.0             | Not Detected |
| Benzene                          | 5.0             | Not Detected |
| 1,2-Dichloroethane               | 5.0             | Not Detected |
| Trichloroethene                  | 5.0             | Not Detected |
| 1,2-Dichloropropane              | 5.0             | Not Detected |
| Bromodichloromethane             | 5.0             | Not Detected |
| trans-1,3-Dichloropropene        | 5.0             | Not Detected |
| 4-Methyl-2-pentanone             | 10              | Not Detected |
| Toluene                          | 5.0             | Not Detected |
| cis-1,3-Dichloropropene          | 5.0             | Not Detected |
| 1,1,2-Trichloroethane            | 5.0             | Not Detected |
| Tetrachloroethene                | 5.0             | Not Detected |
| 2-Hexanone                       | 10              | Not Detected |
| Dibromochloromethane             | 5.0             | Not Detected |
| Chlorobenzene                    | 5.0             | Not Detected |
| Ethyl Benzene                    | 5.0             | Not Detected |
| m,p-Xylene                       | 5.0             | Not Detected |
| o-Xylene                         | 5.0             | Not Detected |
| Styrene                          | 5.0             | Not Detected |
| Bromoform                        | 5.0             | Not Detected |
| 1,1,2,2-Tetrachloroethane        | 5.0             | Not Detected |
| cis-1,2-Dichloroethene           | 5.0             | Not Detected |

### TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported

| Compound        | CAS Number | Match Quality | Amount (nG) |
|-----------------|------------|---------------|-------------|
| None Identified |            |               |             |

Container Type: NA

| Surrogates | % Recovery | Method Limits |
|------------|------------|---------------|
|            |            |               |

**AIR TOXICS LTD.**  
SAMPLE NAME : 7201A&B

ID#: 9811284-10A  
Modified VOST 5041A

Surrogates  
1,2-Dichloroethane-d4  
Toluene-d8  
4-Bromofluorobenzene  
Dibromofluorobenzene  
Benzene-d6

% Recovery  
101  
106  
101  
98  
115

Method Limits  
69-112  
72-134  
78-119  
70-130  
70-130

# AIR TOXICS LTD.

SAMPLE NAME : 7713 A&B

ID#: 9812260-01A/B

Modified VOST 5041A

|             |         |                    |          |
|-------------|---------|--------------------|----------|
| File Name   | 9121705 | Date of Collection | 12/12/98 |
| Dil. Factor | 1.0     | Date of Analysis   | 12/17/98 |

| Surrogates            | % Recovery | Method Limits |
|-----------------------|------------|---------------|
| 1,2-Dichloroethane-d4 | 96         | 69-112        |
| Toluene-d8            | 108        | 72-134        |
| 4-Bromofluorobenzene  | 106        | 78-119        |
| Dibromofluoromethane  | 99         | 70-130        |

# AIR TOXICS LTD.

SAMPLE NAME : 7713 A&B

ID#: 9812260-01A/B

Modified VOST 5041A

|              |         |                     |          |
|--------------|---------|---------------------|----------|
| File Name:   | 9121705 | Date of Collection: | 12/12/98 |
| Dil. Factor: | 1.0     | Date of Analysis:   | 12/17/98 |

| Compound                         | Det. Limit (nG) | Amount (nG)  |
|----------------------------------|-----------------|--------------|
| Chloromethane                    | 10              | Not Detected |
| Vinyl Chloride                   | 5.0             | Not Detected |
| Bromomethane                     | 10              | Not Detected |
| Chloroethane                     | 5.0             | Not Detected |
| 1,1-Dichloroethene               | 5.0             | Not Detected |
| Carbon Disulfide                 | 5.0             | Not Detected |
| Acetone                          | 50              | Not Detected |
| Methylene Chloride               | 5.0             | Not Detected |
| trans-1,2-Dichloroethene         | 5.0             | Not Detected |
| 1,1-Dichloroethane               | 5.0             | Not Detected |
| Vinyl Acetate                    | 10              | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 50              | Not Detected |
| Chloroform                       | 5.0             | Not Detected |
| 1,1,1-Trichloroethane            | 5.0             | Not Detected |
| Carbon Tetrachloride             | 5.0             | Not Detected |
| Benzene                          | 5.0             | Not Detected |
| 1,2-Dichloroethane               | 5.0             | Not Detected |
| Trichloroethene                  | 5.0             | Not Detected |
| 1,2-Dichloropropane              | 5.0             | Not Detected |
| Bromodichloromethane             | 5.0             | Not Detected |
| trans-1,3-Dichloropropene        | 5.0             | Not Detected |
| 4-Methyl-2-pentanone             | 10              | Not Detected |
| Toluene                          | 5.0             | Not Detected |
| cis-1,3-Dichloropropene          | 5.0             | Not Detected |
| 1,1,2-Trichloroethane            | 5.0             | Not Detected |
| Tetrachloroethene                | 5.0             | Not Detected |
| 2-Hexanone                       | 10              | Not Detected |
| Dibromochloromethane             | 5.0             | Not Detected |
| Chlorobenzene                    | 5.0             | Not Detected |
| Ethyl Benzene                    | 5.0             | Not Detected |
| m,p-Xylene                       | 5.0             | Not Detected |
| o-Xylene                         | 5.0             | Not Detected |
| Styrene                          | 5.0             | Not Detected |
| Bromoform                        | 5.0             | Not Detected |
| 1,1,2,2-Tetrachloroethane        | 5.0             | Not Detected |
| cis-1,2-Dichloroethene           | 5.0             | Not Detected |

**TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported**

| Compound        | CAS Number | Match Quality | Amount (nG) |
|-----------------|------------|---------------|-------------|
| None Identified |            |               |             |

Container Type: VOST Tube

| Surrogates | % Recovery | Method Limits |
|------------|------------|---------------|
|            |            |               |

**LABORATORY NARRATIVE**  
**Analysis of Volatile Organic Compounds in VOST Cartridges**  
**by EPA 5041A/8260B**  
**U.S. Army Corps of Engineers**  
**Work Order #9812260**

Six Tenax and Tenax/charcoal tube pairs (VOST cartridges) were received on December 16, 1998. The sacrificial temperature check vial was not provided with the shipment, therefore the actual temperature of the shipment was not recorded. The samples were received on ice and therefore their integrity is not in question. The laboratory performed the analysis via EPA SW-846 Method 5041A using GC/MS in the full scan mode. The method involves thermal desorption of the VOST cartridges for 11 min. at 180° C using an inert gas. The gas stream is then bubbled through 5 mL of organic free water and trapped on the sorbent trap of the purge and trap system. The trap is thermally desorbed to elute the components into the GC system for further separation. See the data sheets for the reporting limits for each compound.

Bromomethane was detected in the laboratory blank run on 12/17/98. The "B" flag was applied to the associated results.

Recovery of the internal standard compound 1,4-Dichlorobenzene-d4 was outside the limits of  $\pm 50\%$  difference (D) from the daily calibration checks internal standard area in sample 7903A&B. Re-analysis to confirm matrix effects is not possible for VOST tube samples.

Recovery of the surrogate compound 1,2-Dichloroethane-d4 was slightly above the laboratory established limits of 69-112% in sample 7903A&B. Recovery of the surrogate compound 4-Bromofluorobenzene was above the laboratory established limits of 78-119% in samples 7716A&B, 7901A&B, 7903A&B and 7902A&B. Re-analysis to confirm matrix effects is not possible for VOST tube samples.

There were no other out of the ordinary circumstances to report.

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:

- B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
- J - Estimated Value.
- E - Exceeds instrument calibration range.
- S - Saturated Peak.
- Q - Exceeds quality control limits.
- U - Compound analyzed for but not detected above the detection limit.
- N - The identification is based on presumptive evidence.

# @AIR TOXICS LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

## WORK ORDER #: 9812260

### Work Order Summary

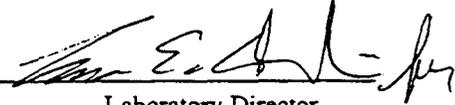
**CLIENT:** Mr. Steve Peterson  
U.S. Army Corps of Engineers  
215 N. 17th Street, Zorinsky Bldg.  
Omaha, NE 68102-4978

**BILL TO:** Same

**PHONE:** 402-221-7183  
**FAX:** 402-221-7769  
**DATE RECEIVED:** 12/16/98  
**DATE COMPLETED:** 12/24/98

**P.O. #** NR  
**PROJECT #** DACW45-99-P-0094 Himco Dump

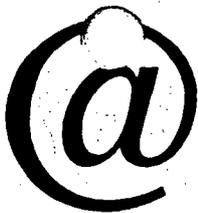
| <u>FRACTION #</u> | <u>NAME</u> | <u>TEST</u>            |
|-------------------|-------------|------------------------|
| 01A/B             | 7713 A&B    | VOST 5041A/8260B/TIC's |
| 02A/B             | 7716 A&B    | VOST 5041A/8260B/TIC's |
| 03A/B             | 7904 A&B    | VOST 5041A/8260B/TIC's |
| 04A/B             | 7901 A&B    | VOST 5041A/8260B/TIC's |
| 05A/B             | 7903 A&B    | VOST 5041A/8260B/TIC's |
| 06A/B             | 7902 A&B    | VOST 5041A/8260B/TIC's |
| 07A               | Lab Blank   | VOST 5041A/8260B/TIC's |
| 07B               | Lab Blank   | VOST 5041A/8260B/TIC's |

**CERTIFIED BY:**   
Laboratory Director

**DATE:** 12/24/98

Certification numbers: CA ELAP - 1149, NY ELAP - 11291, UT ELAP - E-217

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA 95630  
(916) 985-1000 • (800) 985-5955 • FAX (916) 985-1020



**AIR TOXICS LTD.**

AN ENVIRONMENTAL ANALYTICAL LABORATORY

180 BLUE RAVINE ROAD, TE B  
FOLSOM, CA 95630-4719  
(916) 985-1000 FAX: (916) 985-1020

# CHAIN-OF-CUSTODY RECORD

Nº 017840

Page 1 of 1

|  |   |   |
|--|---|---|
| Contact Person <u>Richard Grabowski</u><br>Company <u>US Army Corps of Engineers</u><br>Address <u>215 N. 17th St.</u> City <u>Omaha</u> State <u>NE</u> Zip <u>68102</u><br>Phone <u>(402) 221-7784</u> FAX <u>(402) 221-7769</u><br>Collected By: Signature <u>Richard Grabowski</u> | Project info:<br>P.O. # _____<br>Project # _____<br>Project Name <u>Himco Dump Superfund Site</u> | Turn Around Time:<br><input checked="" type="checkbox"/> Normal<br><input type="checkbox"/> Rush _____<br>Specify _____ |
|--|---|---|

| Lab I.D. | Field Sample I.D. | Date & Time   | Analyses Requested    | Canister Pressure / Vacuum |       |         |
|----------|-------------------|---------------|-----------------------|----------------------------|-------|---------|
|          |                   |               |                       | Initial                    | Final | Receipt |
| 01A/B    | 7715 A E B        | 12/11/98 0730 | UOST 5041A/8260B/TICS | N/A                        | N/A   |         |
| 02A/B    | 7720 A E B        | 12/11/98 0926 | UOST 5041A/8260B/TICS | N/A                        | N/A   |         |
| 03A/B    | 7707 A E B        | 12/11/98 1024 | UOST 5041A/8260B/TICS | N/A                        | N/A   |         |
| 04A/B    | 7718 A E B        | 12/11/98 1112 | UOST 5041A/8260B/TICS | N/A                        | N/A   |         |
| 05A/B    | 7717 A E B        | 12/11/98 1521 | UOST 5041A/8260B/TICS | N/A                        | N/A   |         |
| 06A/B    | 7714 A E B        | 12/11/98 1629 | UOST 5041A/8260B/TICS | N/A                        | N/A   |         |

|  |   |
|--|---|
| Relinquished By: (Signature) <u>[Signature]</u> Date/Time <u>12/11/98 1930</u><br>Relinquished By: (Signature) _____ Date/Time _____<br>Relinquished By: (Signature) _____ Date/Time _____ | Print Name <u>RICHARD J. GRABOWSKI</u><br>Received By: (Signature) <u>[Signature]</u> Date/Time <u>12/11/98 945</u><br>Received By: (Signature) _____ Date/Time _____ |
|--|---|

Notes: \_\_\_\_\_

|              |               |                   |            |                     |            |                |                       |                   |
|--------------|---------------|-------------------|------------|---------------------|------------|----------------|-----------------------|-------------------|
| Lab Use Only | Shipper Name  | Air Bill #        | Opened By: | Date/Time           | Temp. (°C) | Condition      | Custody Seals Intact? | Work Order #      |
|              | <u>Fed-ek</u> | <u>7642849200</u> | <u>TS</u>  | <u>12/11/98 945</u> | <u>945</u> | <u>Ambient</u> | <u>Good</u>           | Yes No (None) N/A | 9812208 |

# AIR TOXICS LTD.

SAMPLE NAME : Lab Blank

ID#: 9812208-07A

Modified VOST 5041A

|              |         |                     |          |
|--------------|---------|---------------------|----------|
| File Name:   | 9121404 | Date of Collection: | NA       |
| Dil. Factor: | 1.0     | Date of Analysis:   | 12/14/98 |

| Surrogates            | % Recovery | Method Limits |
|-----------------------|------------|---------------|
| 1,2-Dichloroethane-d4 | 107        | 69-112        |
| Toluene-d8            | 101        | 72-134        |
| 4-Bromofluorobenzene  | 108        | 78-119        |
| Dibromofluoromethane  | 106        | 70-130        |

# AIR TOXICS LTD.

SAMPLE NAME : Lab Blank

ID#: 9812208-07A

Modified VOST 5041A

|              |         |                            |
|--------------|---------|----------------------------|
| File Name:   | 9121404 | Date of Collection: NA     |
| Dil. Factor: | 1.0     | Date of Analysis: 12/14/98 |

| Compound                         | Det. Limit (nG) | Amount (nG)  |
|----------------------------------|-----------------|--------------|
| Chloromethane                    | 10              | Not Detected |
| Vinyl Chloride                   | 5.0             | Not Detected |
| Bromomethane                     | 10              | 13           |
| Chloroethane                     | 5.0             | Not Detected |
| 1,1-Dichloroethene               | 5.0             | Not Detected |
| Carbon Disulfide                 | 5.0             | Not Detected |
| Acetone                          | 50              | Not Detected |
| Methylene Chloride               | 5.0             | Not Detected |
| trans-1,2-Dichloroethene         | 5.0             | Not Detected |
| 1,1-Dichloroethane               | 5.0             | Not Detected |
| Vinyl Acetate                    | 10              | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 50              | Not Detected |
| Chloroform                       | 5.0             | Not Detected |
| 1,1,1-Trichloroethane            | 5.0             | Not Detected |
| Carbon Tetrachloride             | 5.0             | Not Detected |
| Benzene                          | 5.0             | Not Detected |
| 1,2-Dichloroethane               | 5.0             | Not Detected |
| Trichloroethene                  | 5.0             | Not Detected |
| 1,2-Dichloropropane              | 5.0             | Not Detected |
| Bromodichloromethane             | 5.0             | Not Detected |
| trans-1,3-Dichloropropene        | 5.0             | Not Detected |
| 4-Methyl-2-pentanone             | 10              | Not Detected |
| Toluene                          | 5.0             | Not Detected |
| cis-1,3-Dichloropropene          | 5.0             | Not Detected |
| 1,1,2-Trichloroethane            | 5.0             | Not Detected |
| Tetrachloroethene                | 5.0             | Not Detected |
| 2-Hexanone                       | 10              | Not Detected |
| Dibromochloromethane             | 5.0             | Not Detected |
| Chlorobenzene                    | 5.0             | Not Detected |
| Ethyl Benzene                    | 5.0             | Not Detected |
| m,p-Xylene                       | 5.0             | Not Detected |
| o-Xylene                         | 5.0             | Not Detected |
| Styrene                          | 5.0             | Not Detected |
| Bromoform                        | 5.0             | Not Detected |
| 1,1,2,2-Tetrachloroethane        | 5.0             | Not Detected |
| cis-1,2-Dichloroethene           | 5.0             | Not Detected |

### TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported

| Compound        | CAS Number | Match Quality | Amount (nG) |
|-----------------|------------|---------------|-------------|
| None Identified |            |               |             |
| None Identified |            |               |             |

Container Type: NA

# AIR TOXICS LTD.

SAMPLE NAME : 7714 A&B

ID#: 9812208-06A/B

Modified VOST 5041A

|             |         |                     |          |
|-------------|---------|---------------------|----------|
| File Name:  | 9121414 | Date of Collection: | 12/11/98 |
| DIL Factor: | 1.0     | Date of Analysis:   | 12/14/98 |

## TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported

| Compound                                 | CAS Number | Match Quality | Amount (nG) |
|--|------------|---------------|-------------|
| Cyclohexane, 1,1,3-trimethyl-            | 3073-66-3  | 72 %          | 240         |
| Cyclohexane, 1-ethyl-4-methyl-, trans-   | 6236-88-0  | Manual ID     | 340         |
| .alpha.-Pinene                           | 80-56-8    | 96 %          | 740         |
| Bicyclo[2.2.1]hept-2-ene, 1,7,7-trimethy | 464-17-5   | 86 %          | 250         |

B = Compound present in laboratory blank, background subtraction not performed.

E = Exceeds instrument calibration range.

Q = Exceeds Quality Control limits.

Container Type: VOST Tube

| Surrogates            | % Recovery | Method Limits |
|-----------------------|------------|---------------|
| 1,2-Dichloroethane-d4 | 114 Q      | 69-112        |
| Toluene-d8            | 103        | 72-134        |
| 4-Bromofluorobenzene  | 214 Q      | 78-119        |
| Dibromofluoromethane  | 109        | 70-130        |

# AIR TOXICS LTD.

SAMPLE NAME : 7714 A&B

ID#: 9812208-06A/B

Modified VOST 5041A

|              |         |                     |          |
|--------------|---------|---------------------|----------|
| File Name:   | 9121414 | Date of Collection: | 12/11/98 |
| Dil. Factor: | 1.0     | Date of Analysis:   | 12/14/98 |

| Compound                         | Det. Limit (nG) | Amount (nG)  |
|----------------------------------|-----------------|--------------|
| Chloromethane                    | 10              | Not Detected |
| Vinyl Chloride                   | 5.0             | Not Detected |
| Bromomethane                     | 10              | 19 B         |
| Chloroethane                     | 5.0             | 100          |
| 1,1-Dichloroethene               | 5.0             | 13           |
| Carbon Disulfide                 | 5.0             | 27           |
| Acetone                          | 50              | Not Detected |
| Methylene Chloride               | 5.0             | Not Detected |
| trans-1,2-Dichloroethene         | 5.0             | 12           |
| 1,1-Dichloroethane               | 5.0             | 6600 E       |
| Vinyl Acetate                    | 10              | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 50              | Not Detected |
| Chloroform                       | 5.0             | Not Detected |
| 1,1,1-Trichloroethane            | 5.0             | 170          |
| Carbon Tetrachloride             | 5.0             | Not Detected |
| Benzene                          | 5.0             | 140          |
| 1,2-Dichloroethane               | 5.0             | 8.8          |
| Trichloroethene                  | 5.0             | 940          |
| 1,2-Dichloropropane              | 5.0             | 110          |
| Bromodichloromethane             | 5.0             | Not Detected |
| trans-1,3-Dichloropropene        | 5.0             | Not Detected |
| 4-Methyl-2-pentanone             | 10              | Not Detected |
| Toluene                          | 5.0             | 29           |
| cis-1,3-Dichloropropene          | 5.0             | Not Detected |
| 1,1,2-Trichloroethane            | 5.0             | Not Detected |
| Tetrachloroethene                | 5.0             | 900          |
| 2-Hexanone                       | 10              | Not Detected |
| Dibromochloromethane             | 5.0             | Not Detected |
| Chlorobenzene                    | 5.0             | Not Detected |
| Ethyl Benzene                    | 5.0             | 140          |
| m,p-Xylene                       | 5.0             | 220          |
| o-Xylene                         | 5.0             | 83           |
| Styrene                          | 5.0             | Not Detected |
| Bromoform                        | 5.0             | Not Detected |
| 1,1,2,2-Tetrachloroethane        | 5.0             | Not Detected |
| cis-1,2-Dichloroethene           | 5.0             | 66           |

### TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported

| Compound                   | CAS Number | Match Quality | Amount (nG) |
|----------------------------|------------|---------------|-------------|
| Methane, dichlorodifluoro- | 75-71-8    | 74 %          | 3800        |
| Methane, dichlorofluoro-   | 75-43-4    | 91 %          | 2500        |
| Ethyl ether                | 60-29-7    | 90 %          | 310         |
| Hexane                     | 110-54-3   | 83 %          | 170         |
| Cyclopentane, methyl-      | 96-37-7    | 78 %          | 420         |
| Cyclohexane, methyl-       | 108-87-2   | 91 %          | 340         |

# AIR TOXICS LTD.

SAMPLE NAME : 7717 A&B

ID#: 9812208-05A/B

Modified VOST 5041A

|              |         |                     |          |
|--------------|---------|---------------------|----------|
| File Name:   | 9121413 | Date of Collection: | 12/11/98 |
| Dil. Factor: | 1.0     | Date of Analysis:   | 12/14/98 |

## TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported

| Compound                    | CAS Number | Match Quality | Amount (nG) |
|-----------------------------|------------|---------------|-------------|
| Decane                      | 124-18-5   | Manual ID     | 26          |
| Cyclopentane, 1,1-dimethyl- | 1638-26-2  | Manual ID     | 74          |
| Heptane, 2,2-dimethyl-      | 1071-26-7  | Manual ID     | 120         |
| 3-Eicosene, (E)-            | 74685-33-9 | Manual ID     | 120         |
| Undecane                    | 1120-21-4  | 91 %          | 56          |

Container Type: VOST Tube

| Surrogates            | % Recovery | Method Limits |
|-----------------------|------------|---------------|
| 1,2-Dichloroethane-d4 | 106        | 69-112        |
| Toluene-d8            | 104        | 72-134        |
| 4-Bromofluorobenzene  | 100        | 78-119        |
| Dibromofluoromethane  | 111        | 70-130        |

# AIR TOXICS LTD.

SAMPLE NAME : 7717 A&B

ID#: 9812208-05A/B

Modified VOST 5041A

|              |         |                     |          |
|--------------|---------|---------------------|----------|
| File Name:   | 9121413 | Date of Collection: | 12/11/98 |
| Dil. Factor: | 1.0     | Date of Analysis:   | 12/14/98 |

| Compound                         | Det. Limit (nG) | Amount (nG)  |
|----------------------------------|-----------------|--------------|
| Chloromethane                    | 10              | Not Detected |
| Vinyl Chloride                   | 5.0             | Not Detected |
| Bromomethane                     | 10              | Not Detected |
| Chloroethane                     | 5.0             | Not Detected |
| 1,1-Dichloroethene               | 5.0             | Not Detected |
| Carbon Disulfide                 | 5.0             | 5.8          |
| Acetone                          | 50              | Not Detected |
| Methylene Chloride               | 5.0             | Not Detected |
| trans-1,2-Dichloroethene         | 5.0             | Not Detected |
| 1,1-Dichloroethane               | 5.0             | 7.5          |
| Vinyl Acetate                    | 10              | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 50              | Not Detected |
| Chloroform                       | 5.0             | Not Detected |
| 1,1,1-Trichloroethane            | 5.0             | 6.4          |
| Carbon Tetrachloride             | 5.0             | Not Detected |
| Benzene                          | 5.0             | 5.2          |
| 1,2-Dichloroethane               | 5.0             | Not Detected |
| Trichloroethene                  | 5.0             | 24           |
| 1,2-Dichloropropane              | 5.0             | Not Detected |
| Bromodichloromethane             | 5.0             | Not Detected |
| trans-1,3-Dichloropropene        | 5.0             | Not Detected |
| 4-Methyl-2-pentanone             | 10              | Not Detected |
| Toluene                          | 5.0             | 9.4          |
| cis-1,3-Dichloropropene          | 5.0             | Not Detected |
| 1,1,2-Trichloroethane            | 5.0             | Not Detected |
| Tetrachloroethene                | 5.0             | 49           |
| 2-Hexanone                       | 10              | Not Detected |
| Dibromochloromethane             | 5.0             | Not Detected |
| Chlorobenzene                    | 5.0             | Not Detected |
| Ethyl Benzene                    | 5.0             | Not Detected |
| m,p-Xylene                       | 5.0             | Not Detected |
| o-Xylene                         | 5.0             | Not Detected |
| Styrene                          | 5.0             | Not Detected |
| Bromoform                        | 5.0             | Not Detected |
| 1,1,2,2-Tetrachloroethane        | 5.0             | Not Detected |
| cis-1,2-Dichloroethene           | 5.0             | Not Detected |

### TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported

| Compound                        | CAS Number | Match Quality | Amount (nG) |
|---------------------------------|------------|---------------|-------------|
| Methane, dichlorodifluoro-      | 75-71-8    | 70 %          | 6200        |
| Methane, trichlorofluoro-       | 75-69-4    | 90 %          | 230         |
| Hexane                          | 110-54-3   | 91 %          | 34          |
| Octane                          | 111-65-9   | 72 %          | 58          |
| Nonane                          | 111-84-2   | 91 %          | 80          |
| Cyclopropane, 1-ethyl-1-methyl- | 53778-43-1 | Manual ID     | 37          |

# AIR TOXICS LTD.

SAMPLE NAME : 7718 A&B

ID#: 9812208-04A/B

Modified VOST 5041A

|              |         |                     |          |
|--------------|---------|---------------------|----------|
| File Name:   | 9121412 | Date of Collection: | 12/11/98 |
| Dil. Factor: | 1.0     | Date of Analysis:   | 12/14/98 |

Container Type: VOST Tube

| Surrogates            | % Recovery | Method Limits |
|-----------------------|------------|---------------|
| 1,2-Dichloroethane-d4 | 112        | 69-112        |
| Toluene-d8            | 106        | 72-134        |
| 4-Bromofluorobenzene  | 115        | 78-119        |
| Dibromofluoromethane  | 108        | 70-130        |

# AIR TOXICS LTD.

SAMPLE NAME : 7718 A&B

ID#: 9812208-04A/B

Modified VOST 5041A

|              |         |                              |
|--------------|---------|------------------------------|
| File Name:   | 9121412 | Date of Collection: 12/11/98 |
| Dil. Factor: | 1.0     | Date of Analysis: 12/14/98   |

| Compound                         | Det. Limit (nG) | Amount (nG)  |
|----------------------------------|-----------------|--------------|
| Chloromethane                    | 10              | Not Detected |
| Vinyl Chloride                   | 5.0             | Not Detected |
| Bromomethane                     | 10              | Not Detected |
| Chloroethane                     | 5.0             | Not Detected |
| 1,1-Dichloroethene               | 5.0             | Not Detected |
| Carbon Disulfide                 | 5.0             | 9.8          |
| Acetone                          | 50              | Not Detected |
| Methylene Chloride               | 5.0             | Not Detected |
| trans-1,2-Dichloroethene         | 5.0             | Not Detected |
| 1,1-Dichloroethane               | 5.0             | 200          |
| Vinyl Acetate                    | 10              | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 50              | Not Detected |
| Chloroform                       | 5.0             | Not Detected |
| 1,1,1-Trichloroethane            | 5.0             | 8.3          |
| Carbon Tetrachloride             | 5.0             | Not Detected |
| Benzene                          | 5.0             | 10           |
| 1,2-Dichloroethane               | 5.0             | Not Detected |
| Trichloroethene                  | 5.0             | Not Detected |
| 1,2-Dichloropropane              | 5.0             | Not Detected |
| Bromodichloromethane             | 5.0             | Not Detected |
| trans-1,3-Dichloropropene        | 5.0             | Not Detected |
| 4-Methyl-2-pentanone             | 10              | Not Detected |
| Toluene                          | 5.0             | 10           |
| cis-1,3-Dichloropropene          | 5.0             | Not Detected |
| 1,1,2-Trichloroethane            | 5.0             | Not Detected |
| Tetrachloroethene                | 5.0             | 41           |
| 2-Hexanone                       | 10              | Not Detected |
| Dibromochloromethane             | 5.0             | Not Detected |
| Chlorobenzene                    | 5.0             | Not Detected |
| Ethyl Benzene                    | 5.0             | Not Detected |
| m,p-Xylene                       | 5.0             | Not Detected |
| o-Xylene                         | 5.0             | Not Detected |
| Styrene                          | 5.0             | Not Detected |
| Bromoform                        | 5.0             | Not Detected |
| 1,1,2,2-Tetrachloroethane        | 5.0             | Not Detected |
| cis-1,2-Dichloroethene           | 5.0             | Not Detected |

### TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported

| Compound                                 | CAS Number | Match Quality | Amount (nG) |
|--|------------|---------------|-------------|
| Methane, dichlorofluoro-                 | 75-43-4    | 94 %          | 300         |
| Hexane                                   | 110-54-3   | 72 %          | 34          |
| .alpha.-Pinene                           | 80-56-8    | 96 %          | 150         |
| Bicyclo[3.1.1]heptane, 6,6-dimethyl-2-me | 18172-67-3 | 94 %          | 71          |
| Nonanal                                  | 124-19-6   | 72 %          | 76          |

# AIR TOXICS LTD.

SAMPLE NAME : 7707 A&B

ID#: 9812208-03A/B

Modified VOST 5041A

|                     |         |                            |          |
|---------------------|---------|----------------------------|----------|
| <b>File Name:</b>   | 9121411 | <b>Date of Collection:</b> | 12/11/98 |
| <b>Dil. Factor:</b> | 1.0     | <b>Date of Analysis:</b>   | 12/14/98 |

| Surrogates            | % Recovery | Method Limits |
|-----------------------|------------|---------------|
| 1,2-Dichloroethane-d4 | 99         | 69-112        |
| Toluene-d8            | 108        | 72-134        |
| 4-Bromofluorobenzene  | 111        | 78-119        |
| Dibromofluoromethane  | 93         | 70-130        |

# AIR TOXICS LTD.

SAMPLE NAME : 7707 A&B

ID#: 9812208-03A/B

Modified VOST 5041A

|              |         |                     |          |
|--------------|---------|---------------------|----------|
| File Name:   | 9121411 | Date of Collection: | 12/11/98 |
| Dil. Factor: | 1.0     | Date of Analysis:   | 12/14/98 |

| Compound                         | Det. Limit (nG) | Amount (nG)  |
|----------------------------------|-----------------|--------------|
| Chloromethane                    | 10              | Not Detected |
| Vinyl Chloride                   | 5.0             | Not Detected |
| Bromomethane                     | 10              | Not Detected |
| Chloroethane                     | 5.0             | Not Detected |
| 1,1-Dichloroethene               | 5.0             | Not Detected |
| Carbon Disulfide                 | 5.0             | 11           |
| Acetone                          | 50              | Not Detected |
| Methylene Chloride               | 5.0             | Not Detected |
| trans-1,2-Dichloroethene         | 5.0             | Not Detected |
| 1,1-Dichloroethane               | 5.0             | Not Detected |
| Vinyl Acetate                    | 10              | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 50              | Not Detected |
| Chloroform                       | 5.0             | Not Detected |
| 1,1,1-Trichloroethane            | 5.0             | Not Detected |
| Carbon Tetrachloride             | 5.0             | Not Detected |
| Benzene                          | 5.0             | Not Detected |
| 1,2-Dichloroethane               | 5.0             | Not Detected |
| Trichloroethene                  | 5.0             | Not Detected |
| 1,2-Dichloropropane              | 5.0             | Not Detected |
| Bromodichloromethane             | 5.0             | Not Detected |
| trans-1,3-Dichloropropene        | 5.0             | Not Detected |
| 4-Methyl-2-pentanone             | 10              | Not Detected |
| Toluene                          | 5.0             | Not Detected |
| cis-1,3-Dichloropropene          | 5.0             | Not Detected |
| 1,1,2-Trichloroethane            | 5.0             | Not Detected |
| Tetrachloroethene                | 5.0             | Not Detected |
| 2-Hexanone                       | 10              | Not Detected |
| Dibromochloromethane             | 5.0             | Not Detected |
| Chlorobenzene                    | 5.0             | Not Detected |
| Ethyl Benzene                    | 5.0             | Not Detected |
| m,p-Xylene                       | 5.0             | Not Detected |
| o-Xylene                         | 5.0             | Not Detected |
| Styrene                          | 5.0             | Not Detected |
| Bromoform                        | 5.0             | Not Detected |
| 1,1,2,2-Tetrachloroethane        | 5.0             | Not Detected |
| cis-1,2-Dichloroethene           | 5.0             | Not Detected |

## TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported

| Compound | CAS Number | Match Quality | Amount (nG) |
|----------|------------|---------------|-------------|
| Undecane | 1120-21-4  | 97 %          | 58          |
| Nonanal  | 124-19-6   | Manual ID     | 45          |

Container Type: VOST Tube

# AIR TOXICS LTD.

ID#: 9812208-02A/B

|              |         |                     |          |
|--------------|---------|---------------------|----------|
| File Name:   | 9121410 | Date of Collection: | 12/11/98 |
| Dil. Factor: | 1.0     | Date of Analysis:   | 12/14/98 |

Container Type: VOST Tube

| Surrogates            | % Recovery | Method Limits |
|-----------------------|------------|---------------|
| 1,2-Dichloroethane-d4 | 116 Q      | 69-112        |
| Toluene-d8            | 101        | 72-134        |
| 4-Bromofluorobenzene  | 102        | 78-119        |
| Dibromofluoromethane  | 113        | 70-130        |

# AIR TOXICS LTD.

SAMPLE NAME : 7720 A&B

ID#: 9812208-02A/B

Modified VOST 5041A

|                     |         |                            |          |
|---------------------|---------|----------------------------|----------|
| <b>File Name:</b>   | 9121410 | <b>Date of Collection:</b> | 12/11/98 |
| <b>Dil. Factor:</b> | 1.0     | <b>Date of Analysis:</b>   | 12/14/98 |

| Compound                         | Det. Limit (nG) | Amount (nG)  |
|----------------------------------|-----------------|--------------|
| Chloromethane                    | 10              | Not Detected |
| Vinyl Chloride                   | 5.0             | Not Detected |
| Bromomethane                     | 10              | Not Detected |
| Chloroethane                     | 5.0             | Not Detected |
| 1,1-Dichloroethene               | 5.0             | Not Detected |
| Carbon Disulfide                 | 5.0             | Not Detected |
| Acetone                          | 50              | Not Detected |
| Methylene Chloride               | 5.0             | Not Detected |
| trans-1,2-Dichloroethene         | 5.0             | Not Detected |
| 1,1-Dichloroethane               | 5.0             | Not Detected |
| Vinyl Acetate                    | 10              | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 50              | Not Detected |
| Chloroform                       | 5.0             | Not Detected |
| 1,1,1-Trichloroethane            | 5.0             | Not Detected |
| Carbon Tetrachloride             | 5.0             | Not Detected |
| Benzene                          | 5.0             | Not Detected |
| 1,2-Dichloroethane               | 5.0             | Not Detected |
| Trichloroethene                  | 5.0             | Not Detected |
| 1,2-Dichloropropane              | 5.0             | Not Detected |
| Bromodichloromethane             | 5.0             | Not Detected |
| trans-1,3-Dichloropropene        | 5.0             | Not Detected |
| 4-Methyl-2-pentanone             | 10              | Not Detected |
| Toluene                          | 5.0             | Not Detected |
| cis-1,3-Dichloropropene          | 5.0             | Not Detected |
| 1,1,2-Trichloroethane            | 5.0             | Not Detected |
| Tetrachloroethene                | 5.0             | Not Detected |
| 2-Hexanone                       | 10              | Not Detected |
| Dibromochloromethane             | 5.0             | Not Detected |
| Chlorobenzene                    | 5.0             | Not Detected |
| Ethyl Benzene                    | 5.0             | Not Detected |
| m,p-Xylene                       | 5.0             | Not Detected |
| o-Xylene                         | 5.0             | Not Detected |
| Styrene                          | 5.0             | Not Detected |
| Bromoform                        | 5.0             | Not Detected |
| 1,1,2,2-Tetrachloroethane        | 5.0             | Not Detected |
| cis-1,2-Dichloroethene           | 5.0             | Not Detected |

### TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported

| Compound | CAS Number | Match Quality | Amount (nG) |
|----------|------------|---------------|-------------|
| Decane   | 124-18-5   | 81 %          | 58          |
| Undecane | 1120-21-4  | 97 %          | 1900        |
| Nonanal  | 124-19-6   | 72 %          | 63          |

Q = Exceeds Quality Control limits.

# AIR TOXICS LTD.

SAMPLE NAME : 7715 A&B

ID#: 9812208-01A/B

Modified VOST 5041A

|              |         |                     |          |
|--------------|---------|---------------------|----------|
| File Name:   | 9121409 | Date of Collection: | 12/11/98 |
| Dil. Factor: | 1.0     | Date of Analysis:   | 12/14/98 |

| Surrogates            | % Recovery | Method Limits |
|-----------------------|------------|---------------|
| 1,2-Dichloroethane-d4 | 96         | 69-112        |
| Toluene-d8            | 107        | 72-134        |
| 4-Bromofluorobenzene  | 114        | 78-119        |
| Dibromofluoromethane  | 95         | 70-130        |

**Table 2-5**  
**Summary of Ground Water Trip Blank Results-**  
**2000**  
**HIMCO Dump Superfund Site**  
**Elkhart, Indiana**

| Sample Number      | EDPM4     | EDPL9     | EDPM5     | EDPM8     | EDCG1     | EDPN3     |
|--------------------|-----------|-----------|-----------|-----------|-----------|-----------|
| Date               | 4/18/2000 | 4/17/2000 | 4/19/2000 | 4/25/2000 | 4/25/2000 | 4/25/2000 |
| Compound           | µg/L      | µg/L      | µg/L      | µg/L      | µg/L      | µg/L      |
| Methylene chloride | 0.5J      | 2U        | 0.9J      | 0.6J      | 3J        | 1J        |
| Carbon Disulfide   | 1U        | 1U        | 1U        | 1U        | 1U        | 1U        |
| Acetone            | 5U        | 5U        | 5U        | 5U        | 5U        | 5U        |

| Sample Number      | EDCH0     | E0057     | E00FD     | E00FL    | E00F6    | EECFN9   |
|--------------------|-----------|-----------|-----------|----------|----------|----------|
| Date               | 4/26/2000 | 4/27/2000 | 4/28/2000 | 5/1/2000 | 5/3/2000 | 5/3/2000 |
| Compound           | µg/L      | µg/L      | µg/L      | µg/L     | µg/L     | µg/L     |
| Methylene chloride | 5         | 0.6J      | 0.6J      | 0.9J     | 2        | 2        |
| Carbon Disulfide   | 2 J       | 1U        | 1U        | 1U       | 1U       | 1U       |
| Acetone            | 0.8J      | 5U        | 5U        | 5U       | 5U       | 5U       |

J: Reported value is estimated.

U: Analyte not detected.

**Table 2-6**  
**Summary of Compounds Detected in Soil Gas Trip Blanks - October 1999**  
**HIMCO Dump Superfund Site**  
**Elkhart, Indiana**

| <b>Sample Tube Numbers</b> | <b>11011A&amp;B</b> | <b>11012A</b> | <b>11012B</b> | <b>11025A&amp;B</b> | <b>11101A&amp;B</b> | <b>11204A&amp;B</b> |
|----------------------------|---------------------|---------------|---------------|---------------------|---------------------|---------------------|
| <b>Sample Date</b>         | 10/22/1999          | 10/20/1999    | 10/20/1999    | 10/21/1999          | 10/25/1999          | 10/26/1999          |
| <b>Compound/Units</b>      | ng                  | ng            | ng            | ng                  | ng                  | ng                  |
| Bromomethane               | <10                 | 13            | <10           | <10                 | <10                 | <10                 |
| Chloromethane              | <10                 | 140           | 20            | <10                 | <10                 | <10                 |
| Methylene Chloride         | 34                  | <10           | <10           | <10                 | <10                 | 11                  |

| <b>Sample Tube Numbers</b> | <b>11208A&amp;B</b> | <b>11221A&amp;B</b> | <b>11316A&amp;B</b> |
|----------------------------|---------------------|---------------------|---------------------|
| <b>Sample Date</b>         | 10/28/1999          | 10/27/1999          | 10/29/1999          |
| <b>Compound/Units</b>      | ng                  | ng                  | ng                  |
| Bromomethane               | <10                 | <10                 | <10                 |
| Chloromethane              | <10                 | <10                 | <10                 |
| Methylene Chloride         | <10                 | <10                 | <10                 |

**2000 Ground Water Analytical Results  
and  
1999 Soil Gas Analytical Results**

Regional Transmittal Form

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION V

DATE:

SUBJECT: Review of Data  
Received for Review on 1/12/2000

FROM: Stephen L. Ostrodka, Chief (HSRL-5J) *for Steve Ostrodka*  
Superfund Technical Support Section *Richard & Byrnes*  
*2/16/00*

TO: Data User: PRP

We have reviewed the data for the following case:

SITE NAME: 4IMCO DUMP (IN)

*work order*  
CASE NUMBER: 9910376 SDG NUMBER: \_\_\_\_\_

Number and Type of Samples: Eight VOST cartridges

Sample Numbers: 11101, 11214, 11008, 11020, 11102, 11111, 11004, 11201

Laboratory: Air Toxics LTD Hrs. for Review: 9.0

Following are our findings:

*The data are usable and acceptable with the qualifications described in the attached narrative.*  
*Richard & Byrnes*

CC: Cecilia Moore  
Region 5 TPO  
Mail Code: SM-5J

NARRATIVE

Page 1 of 8

Laboratory: Air Toxics Ltd  
Site: Himco Dump (IN)

Case:  
SDG: 9910376

Below is a summary of the out-of-control audits and possible effects on the data for this Case/SDG:

Eight VOST Cartridges, numbered 11101, 11214, 11008, 11020, 11102, 11111, 11004 and 11201, were collected on October 25, 1999. The lab received the samples on October 26, 1999 in good condition. All samples were analyzed for volatile organic analytes. All were analyzed according to modified SW846 8260.

The VOST analyses were performed within the technical holding times of 14 days after sample collection; therefore the results are acceptable.

Reviewed by: T Sedlacek Lockheed Martin/ESAT  
Date: January 21, 2000

## NARRATIVE

Page 2 of 8

Laboratory: Air Toxics Ltd  
Site: Himco Dump (IN)

Case:  
SDG: 9910376

### 1. HOLDING TIME

Eight VOST Cartridges, numbered 11101, 11214, 11008, 11020, 11102, 11111, 11004 and 11201, were collected on October 25, 1999. The lab received the samples on October 26, 1999 in good condition. All samples were analyzed for volatile organic analytes. All were analyzed according to modified SW846 8260.

The VOST analyses were performed within the technical holding times of 14 days after sample collection; therefore the results are acceptable.

### 2. GC/MS TUNING AND GC INSTRUMENT PERFORMANCE

All GC/MS tuning complied with mass list and ion abundance criteria for BFB, and all samples were analyzed within the twelve (12) hour periods for instrument performance checks.

### 3. CALIBRATION

Initial and continuing calibrations of the Volatile, standards were evaluated for target compound list and outliers are recorded on the forms included as part of this narrative.

### 4. BLANKS

The lab ran a matrix method blank for each day the VOST cartridges were analyzed. Cartridges used for daily methods blanks were not from the same batch or sampling media. Each of the blanks was labeled as "Lab Blank". All of the blanks had no TCLs or TICs present. Because the lab did not include any sort of identification for the blanks, it would be impossible to determine which samples are associated with which blank.

### 5. SYSTEM MONITORING COMPOUND AND SURROGATE RECOVERY

The volatile system monitoring compounds were within QC required limits for recovery and retention time.

### 6. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Due to the nature of the VOST cartridge matrix it is

Reviewed by: T Sedlacek Lockheed Martin/ESAT  
Date: January 21, 2000

## NARRATIVE

Page 3 of 8

Laboratory: Air Toxics Ltd  
Site: Himco Dump (IN)

Case:  
SDG: 9910376

impossible to perform spiking on the samples. The method requires a batch certification of the VOST cartridges prior to use. The lab did not provide evidence that the pre-certification was performed. All results could be considered suspect due to possible reduced capacity or retention of the VOST media.

### 7. FIELD BLANK AND FIELD DUPLICATE

The samples did not provide a field blank with this SDG. Due the collection method a field duplicate can not be collected.

### 8. INTERNAL STANDARDS

The internal standards retention times and area counts were all within the required QC limits: with the exception of the area for 1,4-dichlorobenze-d4 was out of control high a Lab Blank.

### 9. COMPOUND IDENTIFICATION

Target compounds (TCLs) and Tentatively Identified Compounds (TICs) were identified using a "best fit" library search method.

### 10. COMPOUND QUANTITATION AND REPORTED DETECTION LIMITS

All target compound quantitation was properly reported.

### 11. SYSTEM PERFORMANCE

GC/MS baseline indicated acceptable performance.

### 12. ADDITIONAL INFORMATION

Method modifications which could adversely affect data quality:

1. "Cartridges used for daily method blank may or may not be from the same batch or sampling media" as the analyzed samples.
2. "Sampling media provided by the client is batch certified ahead of time, only if client provides blank cartridges"

Reviewed by: T Sedlacek Lockheed Martin/ESAT  
Date: January 21, 2000

NARRATIVE

Page 4 of 8

Laboratory: Air Toxics Ltd  
Site: Himco Dump (IN)

Case:  
SDG: 9910376

The lab failed to provide copies of the manual data manipulations performed in this data set. The reviewer is unable to determine what effect those actions have on the overall quality of the data.

Sample 11020 was lost during analysis. The filament in the mass spectrometer broke during the analysis run. The lab was unable to generate any data or reports.

The lab reported that samples 11214a and 11214b were found in each other's containers. The lab analyzed them in the proper sequence. This should not adversely effect the data quality.

**CALIBRATION OUTLIERS  
VOLATILE TCL COMPOUNDS**

(Page 1 of 1)

CASE/SAS#: 4910336 7/21/21  
 COLUMN: \_\_\_\_\_  
 HEATED PURGE (Y/N): N

LABORATORY: Env Fore Lab  
 SITE NAME: Harbor Drive

| Instrument#                | MSD# | Initial Cal. |       |       | Contin. Cal.  |       |          | Contin. Cal. |       |          | Contin. Cal. |       |          | Contin. Cal. |       |          |       |
|----------------------------|------|--------------|-------|-------|---------------|-------|----------|--------------|-------|----------|--------------|-------|----------|--------------|-------|----------|-------|
|                            |      | #            | rf    | %rsd  | *             | rf    | %d       | *            | rf    | %d       | *            | rf    | %d       | *            | rf    | %d       | *     |
| Date/Time:                 |      | 10/28/14     | 0.125 |       | 11/6-11/14/14 | 0.533 |          | 11/25/14     | 0.503 |          |              |       |          |              |       |          |       |
| Chloromethane              |      | 0.01         |       |       |               |       |          |              |       |          |              |       |          |              |       |          |       |
| Bromomethane               |      | 0.10         | 0.06  |       | 0.067         | 474   | R        |              |       |          |              |       |          |              |       |          |       |
| Vinyl chloride             |      | 0.10         |       |       |               |       |          |              |       |          |              |       |          |              |       |          |       |
| Chloroethane               |      | 0.01         | 0.104 |       | 0.126         | 221.0 | 11/25/14 | 0.126        | 221.0 | N/A      |              |       |          |              |       |          |       |
| Methylene chloride         |      | 0.01         | 0.238 | 15.06 | 0.238         |       |          |              |       |          |              |       |          |              |       |          |       |
| Acetone                    |      | 0.01         |       |       |               |       |          |              |       |          |              |       |          |              |       |          |       |
| Carbon disulfide           |      | 0.01         | 0.340 |       | 0.314         | 20.15 | 11/25/14 | 0.314        | 20.15 | 11/25/14 | 0.314        | 20.15 | 11/25/14 | 0.314        | 20.15 | 11/25/14 | 0.314 |
| 1,1-Dichloroethene         |      | 0.10         |       |       |               |       |          |              |       |          |              |       |          |              |       |          |       |
| 1,1-Dichloroethane         |      | 0.20         |       |       |               |       |          |              |       |          |              |       |          |              |       |          |       |
| 1,2-Dichloroethene (total) |      |              |       |       |               |       |          |              |       |          |              |       |          |              |       |          |       |
| Chloroform                 |      | 0.20         |       |       |               |       |          |              |       |          |              |       |          |              |       |          |       |
| 1,2-Dichloroethane         |      | 0.10         | 0.356 |       | 0.341         | 15.3  | 11/25/14 |              |       |          |              |       |          |              |       |          |       |
| 2-Butanone                 |      | 0.01         |       |       |               |       |          |              |       |          |              |       |          |              |       |          |       |
| 1,1,1-Trichloroethane      |      | 0.10         | 0.445 |       | 0.371         | 17.2  | 11/25/14 |              |       |          |              |       |          |              |       |          |       |
| Carbon tetrachloride       |      | 0.10         | 0.313 |       | 0.370         | 15.0  | 11/25/14 |              |       |          |              |       |          |              |       |          |       |
| Bromodichloromethane       |      | 0.20         | 0.501 |       |               |       |          | 0.493        | 25.4  | 11/25/14 |              |       |          |              |       |          |       |
| 1,2-Dichloropropane        |      |              |       |       |               |       |          |              |       |          |              |       |          |              |       |          |       |
| cis-1,3-Dichloropropene    |      | 0.20         |       |       |               |       |          |              |       |          |              |       |          |              |       |          |       |
| Trichloroethene            |      | 0.30         |       |       |               |       |          |              |       |          |              |       |          |              |       |          |       |
| Dibromochloromethane       |      | 0.10         | 0.291 |       |               |       |          | 0.336        | 15.7  | 11/25/14 |              |       |          |              |       |          |       |
| 1,1,2-Trichloroethane      |      | 0.10         |       |       |               |       |          |              |       |          |              |       |          |              |       |          |       |
| Benzene                    |      | 0.50         | 0.767 | 33.36 | 0.767         |       |          |              |       |          |              |       |          |              |       |          |       |
| trans-1,3-Dichloropropene  |      | 0.10         |       |       |               |       |          |              |       |          |              |       |          |              |       |          |       |
| Bromoform                  |      | 0.10         |       |       |               |       |          |              |       |          |              |       |          |              |       |          |       |
| 4-Methyl-2-pentanone       |      | 0.01         |       |       |               |       |          |              |       |          |              |       |          |              |       |          |       |
| 2-Hexanone                 |      | 0.01         |       |       |               |       |          |              |       |          |              |       |          |              |       |          |       |
| Tetrachloroethene          |      | 0.20         | 0.331 | 16.27 | 0.331         | 16.27 | 11/25/14 | 0.331        | 16.27 | 11/25/14 | 0.331        | 16.27 | 11/25/14 | 0.331        | 16.27 | 11/25/14 | 0.331 |
| 1,1,2,2-Tetrachloroethane  |      | 0.50         |       |       |               |       |          |              |       |          |              |       |          |              |       |          |       |
| Toluene                    |      | 0.40         |       |       |               |       |          |              |       |          |              |       |          |              |       |          |       |
| Chlorobenzene              |      | 0.50         | 0.412 | 15.42 | 0.412         |       |          |              |       |          |              |       |          |              |       |          |       |
| Ethylbenzene               |      | 0.10         |       |       |               |       |          |              |       |          |              |       |          |              |       |          |       |
| Styrene                    |      | 0.30         | 0.759 | 23.16 | 0.759         |       |          | 0.759        | 23.16 | 11/25/14 |              |       |          |              |       |          |       |
| Xylene (total)             |      | 0.30         |       |       |               |       |          |              |       |          |              |       |          |              |       |          |       |
| Toluene-d8                 |      |              |       |       |               |       |          |              |       |          |              |       |          |              |       |          |       |
| Bromofluorobenzene         |      | 0.20         |       |       |               |       |          |              |       |          |              |       |          |              |       |          |       |
| 1,2-Dichloroethane-d4      |      |              |       |       |               |       |          |              |       |          |              |       |          |              |       |          |       |
| Samples affected:          |      |              |       |       | Lub Bulk      |       |          | Lub Bulk     |       |          |              |       |          |              |       |          |       |
|                            |      |              |       |       | 11101         |       |          | 11102        |       |          | 11211        |       |          |              |       |          |       |
|                            |      |              |       |       | 11205         |       |          | 11111        |       |          | 11204        |       |          |              |       |          |       |
|                            |      |              |       |       | 11214         |       |          | 11204        |       |          |              |       |          |              |       |          |       |
|                            |      |              |       |       | 11220         |       |          | 11201        |       |          |              |       |          |              |       |          |       |
|                            |      |              |       |       |               |       |          | 11204        |       |          |              |       |          |              |       |          |       |
|                            |      |              |       |       |               |       |          | 11223        |       |          |              |       |          |              |       |          |       |
|                            |      |              |       |       |               |       |          | 11210        |       |          |              |       |          |              |       |          |       |
|                            |      |              |       |       |               |       |          | 11225        |       |          |              |       |          |              |       |          |       |

Reviewer's Init/Date: 0/15/2021

J/R = All positive results are estimated "J" and non-detected results are unusable "R"

- \* = These flags should be applied to the analytes on the sample data sheets.
- # = Minimum Relative Response Factor

CALIBRATION OUTLIER FORM

| ELEMENT                   | DATE/TIME | Initial Calibration |    |         | Continuing Calibration |      |         | Continuing Calibration |      |        | Continuing Calibration |        |       |      |   |
|---------------------------|-----------|---------------------|----|---------|------------------------|------|---------|------------------------|------|--------|------------------------|--------|-------|------|---|
|                           |           | RF                  | %D | RRF     | %RSD                   | Q    | RRF     | %RSD                   | Q    | RRF    | %RSD                   | Q      | RRF   | %RSD | Q |
| 1,1,1-Trichloroethane     |           |                     | 15 | 0.446   |                        |      | 0.371   | 17.2                   | J/05 |        |                        |        |       |      |   |
| 1,1,2,2-Tetrachloroethane | 0.3       |                     | 30 |         |                        |      |         |                        |      |        |                        |        |       |      |   |
| 1,1,2-Trichloroethane     |           |                     | 15 |         |                        |      |         |                        |      |        |                        |        |       |      |   |
| 1,1-Dichloroethane        | 0.1       |                     | 15 |         |                        |      |         |                        |      |        |                        |        |       |      |   |
| 1,1-Dichloroethene        |           |                     | 30 |         |                        |      |         |                        |      |        |                        |        |       |      |   |
| 1,2,3-Trichloropropane    |           |                     | 30 |         |                        |      |         |                        |      |        |                        |        |       |      |   |
| 1,2-Dichloroethane        |           |                     | 15 | 0.356   |                        |      | 0.291   | 14.3                   | J/05 |        |                        |        |       |      |   |
| 1,2-Dichloropropane       |           |                     | 30 |         |                        |      |         |                        |      |        |                        |        |       |      |   |
| Acetone                   |           |                     | 30 |         |                        |      |         |                        |      |        |                        |        |       |      |   |
| Acrylonitrile             |           |                     | 15 |         |                        |      |         |                        |      |        |                        |        |       |      |   |
| Benzene                   |           |                     | 15 | 0.74754 | 33.305                 | J/05 |         |                        |      |        |                        |        |       |      |   |
| Bromodichloromethane      |           |                     | 15 | 0.501   |                        |      |         |                        |      |        |                        | 0.643  | -38.4 | J/05 |   |
| Bromomethane              | 0.1       |                     | 30 |         |                        |      |         |                        |      |        |                        |        |       |      |   |
| Bromomethane              |           |                     | 30 | 0.12875 |                        |      | 0.06713 | 47.9                   | J/05 |        |                        |        |       |      |   |
| Carbon Disulfide          |           |                     | 15 | 0.396   |                        |      | 0.316   | 20.5                   | J/05 | 0.885  | -22.3                  | J/05   |       |      |   |
| Carbon Tetrachloride      |           |                     | 15 | 0.31366 |                        |      | 0.370   | 18.0                   | J/05 |        |                        |        |       |      |   |
| Chlorobenzene             | 0.3       |                     | 15 | 0.91214 | 15.926                 | J/05 |         |                        |      |        |                        |        |       |      |   |
| Chloroethane              |           |                     | 15 | 0.1044  |                        |      | 0.1264  | -21.0                  | J/05 | 0.1264 | -21.0                  | J/05   |       |      |   |
| Chloroethane              |           |                     | 30 |         |                        |      |         |                        |      |        |                        |        |       |      |   |
| Chloromethane             | 0.1       |                     | 30 |         |                        |      |         |                        |      |        |                        |        |       |      |   |
| cis-1,3-Dichloropropene   |           |                     | 15 |         |                        |      |         |                        |      |        |                        |        |       |      |   |
| Dibromochloromethane      |           |                     | 15 | 0.29063 |                        |      |         |                        |      |        |                        | 0.3903 | -15.7 | J/05 |   |
| Dibromomethane            |           |                     | 15 |         |                        |      |         |                        |      |        |                        |        |       |      |   |
| Ethylbenzene              |           |                     | 30 |         |                        |      |         |                        |      |        |                        |        |       |      |   |
| Trichlorofluoromethane    |           |                     | 15 | 0.57263 |                        |      | 0.4857  | 23.6                   | J/05 | 0.244  | 17.5                   | J/05   |       |      |   |
| Iodomethane               |           |                     | 15 |         |                        |      |         |                        |      |        |                        |        |       |      |   |
| m-xylene                  |           |                     | 15 | 0.4654  | 72.694                 | J/05 |         |                        |      |        |                        |        |       |      |   |
| Methylene Chloride        |           |                     | 15 | 0.23566 | 15.046                 | J/05 |         |                        |      |        |                        |        |       |      |   |
| o-Xylene                  |           |                     | 15 | 0.44753 | 22.226                 | J/05 |         |                        |      |        |                        |        |       |      |   |
| Styrene                   |           |                     | 15 | 0.75853 | 23.160                 | J/05 |         |                        |      |        |                        | 1.0126 | -19.5 | J/05 |   |
| Tetrachloroethene         |           |                     | 15 | 0.33724 | 16.276                 | J/05 |         |                        |      |        |                        | 0.3509 | 25.7  | J/05 |   |
| Toluene                   |           |                     | 30 |         |                        |      |         |                        |      |        |                        |        |       |      |   |
| trans-1,2-Dichloroethene  |           |                     | 15 | 0.24263 | 20.62                  | J/05 |         |                        |      |        |                        | 0.2801 | 16.0  | J/05 |   |
| trans-1,3-Dichloropropene |           |                     | 10 | 0.457   |                        |      |         |                        |      |        |                        | 0.589  | 28.8  | J/05 |   |
| Trichloroethane           |           |                     | 15 |         |                        |      |         |                        |      |        |                        |        |       |      |   |
| Vinyl Chloride            |           |                     | 30 |         |                        |      |         |                        |      |        |                        |        |       |      |   |

Affected Samples

|  | Lab A/B   | Lab A/B             |
|--|-----------|---------------------|
|  | 11101 A/B | 11102 A/B 11211 A/B |
|  | 11065 A/B | 11111 A/B 11206 A/B |
|  | 11214 A/B | 11064 A/B           |
|  | 11020 A/B | 11201 A/B           |
|  |           | 11204 A/B           |
|  |           | 11223 A/B           |
|  |           | 11210 A/B           |

**CALIBRATION OUTLIERS  
VOLATILE TCL COMPOUNDS**

(Page 1 of 1)

CASE/SAS#: 4910396 1/27/2002  
 COLUMN: \_\_\_\_\_  
 HEATED PURGE (Y/N): N

LABORATORY: ANALYTICAL LTD  
 SITE NAME: Hunter Don

| Instrument#                | Date/Time: | Initial Cal. |      |      | Contin. Cal. |    |    | Contin. Cal. |    |    | Contin. Cal. |    |    | Contin. Cal. |    |    |   |
|----------------------------|------------|--------------|------|------|--------------|----|----|--------------|----|----|--------------|----|----|--------------|----|----|---|
|                            |            | #            | rf   | %rsd | *            | rf | %d | * | rf | %d | * | rf | %d | * | rf | %d | * |
| Chloromethane              |            | 0.01         | 0.20 | 34.6 | 1/5          |    |    |              |    |    |              |    |    |              |    |    |   |
| Bromomethane               |            | 0.10         |      |      |              |    |    |              |    |    |              |    |    |              |    |    |   |
| Vinyl chloride             |            | 0.10         |      |      |              |    |    |              |    |    |              |    |    |              |    |    |   |
| Chloroethane               |            | 0.01         |      |      |              |    |    |              |    |    |              |    |    |              |    |    |   |
| Methylene chloride         |            | 0.01         | 0.30 | 27.3 | 1/5          |    |    |              |    |    |              |    |    |              |    |    |   |
| Acetone                    |            | 0.01         |      |      |              |    |    |              |    |    |              |    |    |              |    |    |   |
| Carbon disulfide           |            | 0.01         |      |      |              |    |    |              |    |    |              |    |    |              |    |    |   |
| 1,1-Dichloroethene         |            | 0.10         |      |      |              |    |    |              |    |    |              |    |    |              |    |    |   |
| 1,1-Dichloroethane         |            | 0.20         |      |      |              |    |    |              |    |    |              |    |    |              |    |    |   |
| 1,2-Dichloroethene (total) |            |              |      |      |              |    |    |              |    |    |              |    |    |              |    |    |   |
| Chloroform                 |            | 0.20         |      |      |              |    |    |              |    |    |              |    |    |              |    |    |   |
| 1,2-Dichloroethane         |            | 0.10         |      |      |              |    |    |              |    |    |              |    |    |              |    |    |   |
| 2-Butanone                 |            | 0.01         |      |      |              |    |    |              |    |    |              |    |    |              |    |    |   |
| 1,1,1-Trichloroethane      |            | 0.10         |      |      |              |    |    |              |    |    |              |    |    |              |    |    |   |
| Carbon tetrachloride       |            | 0.10         |      |      |              |    |    |              |    |    |              |    |    |              |    |    |   |
| Bromodichloromethane       |            | 0.20         |      |      |              |    |    |              |    |    |              |    |    |              |    |    |   |
| 1,2-Dichloropropane        |            |              |      |      |              |    |    |              |    |    |              |    |    |              |    |    |   |
| cis-1,3-Dichloropropene    |            | 0.20         |      |      |              |    |    |              |    |    |              |    |    |              |    |    |   |
| Trichloroethene            |            | 0.30         |      |      |              |    |    |              |    |    |              |    |    |              |    |    |   |
| Dibromochloromethane       |            | 0.10         |      |      |              |    |    |              |    |    |              |    |    |              |    |    |   |
| 1,1,2-Trichloroethane      |            | 0.10         |      |      |              |    |    |              |    |    |              |    |    |              |    |    |   |
| Benzene                    |            | 0.50         |      |      |              |    |    |              |    |    |              |    |    |              |    |    |   |
| trans-1,3-Dichloropropene  |            | 0.10         |      |      |              |    |    |              |    |    |              |    |    |              |    |    |   |
| Bromoform                  |            | 0.10         |      |      |              |    |    |              |    |    |              |    |    |              |    |    |   |
| 4-Methyl-2-pentanone       |            | 0.01         |      |      |              |    |    |              |    |    |              |    |    |              |    |    |   |
| 2-Hexanone                 |            | 0.01         | 0.20 | 34.1 | 1/5          |    |    |              |    |    |              |    |    |              |    |    |   |
| Tetrachloroethene          |            | 0.20         | 0.50 | 16.5 | 1/5          |    |    |              |    |    |              |    |    |              |    |    |   |
| 1,1,2,2-Tetrachloroethane  |            | 0.50         |      |      |              |    |    |              |    |    |              |    |    |              |    |    |   |
| Toluene                    |            | 0.40         |      |      |              |    |    |              |    |    |              |    |    |              |    |    |   |
| Chlorobenzene              |            | 0.50         |      |      |              |    |    |              |    |    |              |    |    |              |    |    |   |
| Ethylbenzene               |            | 0.10         |      |      |              |    |    |              |    |    |              |    |    |              |    |    |   |
| Styrene                    |            | 0.30         |      |      |              |    |    |              |    |    |              |    |    |              |    |    |   |
| Xylene (total)             |            | 0.30         |      |      |              |    |    |              |    |    |              |    |    |              |    |    |   |
| Toluene-d8                 |            |              |      |      |              |    |    |              |    |    |              |    |    |              |    |    |   |
| Bromofluorobenzene         |            | 0.20         |      |      |              |    |    |              |    |    |              |    |    |              |    |    |   |
| 1,2-Dichloroethane-d4      |            |              |      |      |              |    |    |              |    |    |              |    |    |              |    |    |   |
| Samples affected:          |            |              |      |      |              |    |    |              |    |    |              |    |    |              |    |    |   |

Reviewer's Init/Date: 1/27/2002

J/R = All positive results are estimated "J" and non-detected results are unusable "R"

- = These flags should be applied to the analytes on the sample data sheets.
- # = Minimum Relative Response Factor



Regional Transmittal Form

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION V

DATE:

SUBJECT: Review of Data  
Received for Review on 1/12/2000

FROM: Stephen L. Ostrodka, Chief (HSRL-5J)  
Superfund Technical Support Section

*See attached memo  
Michael J. Byrnes  
2/16/00*

TO: Data User: PRP

We have reviewed the data for the following case:

SITE NAME: HIMCO DUMP (IN)

*work order*  
~~CASE~~ NUMBER: 9910301 SDG NUMBER: \_\_\_\_\_

Number and Type of Samples: Eight VOST Cartridges

Sample Numbers: 11003, 11005, 11006, 11009, 11012, 11019, 11021, 11022

Laboratory: Air Toxics LTO Hrs. for Review: 9.0

Following are our findings:

*No data are useable and acceptable under the  
qualifications described in the attached narrative.  
Michael J. Byrnes*

CC: Cecilia Moore  
Region 5 TPO  
Mail Code: SM-5J

NARRATIVE

Page 1 of 5

Laboratory: Air Toxics Ltd  
Site: Himco Dump (IN)

Case:  
SDG: 9910301

Below is a summary of the out-of-control audits and possible effects on the data for this Case/SDG:

Eight VOST Cartridges, numbered 11003, 11005, 11008, 11009, 11012, 11019, 11021 and 11022, were collected on October 20, 1999. The lab received the samples on October 21, 1999 in good condition. All samples were analyzed for volatile organic analytes. All were analyzed according to modified SW846 8260.

The VOST analyses were performed within the technical holding times of 14 days after sample collection; therefore the results are acceptable.

## NARRATIVE

Page 2 of 5

Laboratory: Air Toxics Ltd  
Site: Himco Dump (IN)

Case:  
SDG: 9910301

### 1. HOLDING TIME

Eight VOST Cartridges, numbered 11003, 11005, 11008, 11009, 11012, 11019, 11021 and 11022, were collected on October 20, 1999. The lab received the samples on October 21, 1999 in good condition. All samples were analyzed for volatile organic analytes. All were analyzed according to modified SW846 8260.

The VOST analyses were performed within the technical holding times of 14 days after sample collection; therefore the results are acceptable.

### 2. GC/MS TUNING AND GC INSTRUMENT PERFORMANCE

All GC/MS tuning complied with mass list and ion abundance criteria for BFB, and all samples were analyzed within the twelve (12) hour periods for instrument performance checks.

### 3. CALIBRATION

Initial and continuing calibrations of the Volatile, standards were evaluated for target compound list and outliers are recorded on the forms included as part of this narrative.

### 4. BLANKS

The lab ran a matrix method blank for each day the VOST cartridges were analyzed. Cartridges used for daily methods blanks were not from the same batch or sampling media. Each of the blanks was labeled as "Lab Blank". All of the blanks had no TCLs or TICs present. Because the lab did not include any sort of identification for the blanks, it would be impossible to determine which samples are associated with which blank.

### 5. SYSTEM MONITORING COMPOUND AND SURROGATE RECOVERY

The volatile system monitoring compounds were within QC required limits for recovery and retention time; with the exception of 11003 A/B which had the recovery of three surrogates high and one low. Therefore in samples 11003 A/B all hits should be flagged "J" and non-detects "UJ"

Reviewed by: T Sedlacek Lockheed Martin/ESAT  
Date: January 13, 2000

NARRATIVE

Page 3 of 5

Laboratory: Air Toxics Ltd  
Site: Himco Dump (IN)

Case:  
SDG: 9910301

6. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Due to the nature of the VOST cartridge matrix it is impossible to perform spiking on the samples. The method requires a batch certification of the VOST cartridges prior to use. The lab did not provide evidence that the pre-certification was performed. All results could be considered suspect due to reduced capacity or retention of the VOST media.

7. FIELD BLANK AND FIELD DUPLICATE

The samples did not provide a field blank with this SDG. Due to the collection method a field duplicate can not be collected.

8. INTERNAL STANDARDS

The internal standards retention times and area counts for the VOA fraction were all within the required QC limits: with the exception of 11003 A/B in which the area of all three internal standards were out of control low. In sample 11003 A/B all results are qualified estimated. See section 5

9. COMPOUND IDENTIFICATION

Target compounds (TCLs) and Tentatively Identified Compounds (TICs) were identified using a "best fit" library search method.

10. COMPOUND QUANTITATION AND REPORTED DETECTION LIMITS

All target compound quantitation was properly reported. All dilutions were properly calculated. The upper calibration range and instrument saturation limits were properly documented and noted on the final results.

11. SYSTEM PERFORMANCE

GC/MS baseline indicated acceptable performance.

12. ADDITIONAL INFORMATION

Method modifications which could adversely affect data

Reviewed by: T Sedlacek Lockheed Martin/ESAT  
Date: January 13, 2000

NARRATIVE

Page 4 of 5

Laboratory: Air Toxics Ltd  
Site: Himco Dump (IN)

Case:  
SDG: 9910301

quality:

1. "Cartridges used for daily method blank may or may not be from the same batch or sampling media" as the analyzed samples.
2. "Sampling media provided by the client is batch certified ahead of time, only if client provides blank cartridges"

Sample 11003 A/B had numerous compounds which either exceeded the calibration range or saturated the detector. Aside from biasing the results for a particular analyte low, detector saturation could generated false positives and false negatives for the analytes which elute closely with that analyte.

Reviewed by: T Sedlacek Lockheed Martin/ESAT  
Date: January 13, 2000

CALIBRATION OUTLIER FORM

| INSTRUMENT                | DATE/TIME |    | Initial Calibration |        |   | Continuing Calibration |      |   | Continuing Calibration |      |   | Continuing Calibration |       |   |
|---------------------------|-----------|----|---------------------|--------|---|------------------------|------|---|------------------------|------|---|------------------------|-------|---|
|                           | RF        | %D | RRF                 | %RSD   | Q | RRF                    | %RSD | Q | RRF                    | %RSD | Q | RRF                    | %RSD  | Q |
| 1,1,1-Trichloroethane     |           | 15 |                     |        |   |                        |      |   |                        |      |   |                        |       |   |
| 1,1,2,2-Tetrachloroethane | 0.3       | 30 |                     |        |   |                        |      |   |                        |      |   |                        |       |   |
| 1,1,2-Trichloroethane     |           | 15 |                     |        |   |                        |      |   |                        |      |   |                        |       |   |
| 1,1-Dichloroethane        | 0.1       | 15 |                     |        |   |                        |      |   |                        |      |   |                        |       |   |
| 1,1-Dichloroethene        |           | 30 |                     |        |   |                        |      |   |                        |      |   |                        |       |   |
| 1,2,3-Trichloropropane    |           | 30 |                     |        |   |                        |      |   |                        |      |   |                        |       |   |
| 1,2-Dichloroethane        |           | 15 |                     |        |   |                        |      |   |                        |      |   |                        |       |   |
| 1,2-Dichloropropane       |           | 30 |                     |        |   |                        |      |   |                        |      |   |                        |       |   |
| Acetone                   |           | 30 |                     |        |   |                        |      |   |                        |      |   |                        |       |   |
| Acrylonitrile             |           | 15 |                     |        |   |                        |      |   |                        |      |   |                        |       |   |
| Benzene                   |           | 15 | 0.7475              | 33.365 | J |                        |      |   |                        |      |   |                        |       |   |
| Bromochloromethane        |           | 15 |                     |        |   |                        |      |   |                        |      |   |                        |       |   |
| Bromoform                 | 0.1       | 30 |                     |        |   |                        |      |   |                        |      |   |                        |       |   |
| Bromomethane              |           | 30 | 0.12875             |        |   |                        |      |   |                        |      |   | 0.0732                 | 54.7  | J |
| Carbon Disulfide          |           | 15 |                     |        |   |                        |      |   |                        |      |   |                        |       |   |
| Carbon Tetrachloride      |           | 15 |                     |        |   |                        |      |   |                        |      |   |                        |       |   |
| Chlorobenzene             | 0.3       | 15 |                     |        |   |                        |      |   |                        |      |   |                        |       |   |
| Chloroethane              |           | 15 | 0.0537              |        |   |                        |      |   | 0.137                  | 64.2 | J | 0.11400                | -43.3 | J |
| Chloroform                |           | 30 |                     |        |   |                        |      |   |                        |      |   |                        |       |   |
| Chloromethane             | 0.1       | 30 |                     |        |   |                        |      |   |                        |      |   |                        |       |   |
| cis-1,3-Dichloropropene   |           | 15 |                     |        |   |                        |      |   |                        |      |   |                        |       |   |
| Dibromochloromethane      |           | 15 |                     |        |   |                        |      |   |                        |      |   |                        |       |   |
| Dibromomethane            |           | 15 |                     |        |   |                        |      |   |                        |      |   |                        |       |   |
| Ethylbenzene              |           | 30 |                     |        |   |                        |      |   |                        |      |   |                        |       |   |
| Trichlorofluoromethane    |           | 15 |                     |        |   |                        |      |   |                        |      |   |                        |       |   |
| Iodochloromethane         |           | 15 |                     |        |   |                        |      |   |                        |      |   |                        |       |   |
| m,p-Xylene                |           | 15 | 0.4686              | 22.694 | J |                        |      |   |                        |      |   |                        |       |   |
| Methylene Chloride        |           | 15 | 0.2386              | 15.056 | J |                        |      |   |                        |      |   |                        |       |   |
| o-Xylene                  |           | 15 | 0.4478              | 22.226 | J |                        |      |   |                        |      |   |                        |       |   |
| Styrene                   |           | 15 | 0.75893             | 23.160 | J |                        |      |   |                        |      |   |                        |       |   |
| Tetrachloroethene         |           | 15 | 0.33974             | 16.276 | J |                        |      |   |                        |      |   |                        |       |   |
| Toluene                   |           | 30 |                     |        |   |                        |      |   |                        |      |   |                        |       |   |
| trans-1,2-Dichloroethene  |           | 15 | 0.24263             | 20.600 | J |                        |      |   |                        |      |   |                        |       |   |
| trans-1,3-Dichloropropene |           | 10 |                     |        |   |                        |      |   |                        |      |   |                        |       |   |
| Trichloroethane           |           | 15 | 0.31287             | 17.507 | J |                        |      |   |                        |      |   |                        |       |   |
| Vinyl Chloride            |           | 30 |                     |        |   |                        |      |   |                        |      |   |                        |       |   |

Affected Samples

Handwritten notes: *AS*, *11/02/2000*

|  |             |          |
|--|-------------|----------|
|  | 11019 AB    | 11009A   |
|  | 11009/11021 | 11021B   |
|  | 11006AB     | 11021A/B |
|  | 11003AB     | 11012A   |
|  |             | 11012B   |
|  |             | 11025A/B |
|  |             | 11014A/B |
|  |             | 11015A/B |

Regional Transmittal Form

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION V

DATE:

SUBJECT: Review of Data  
Received for Review on 1/12/2000

FROM: Stephen L. Ostrodka, Chief (HSRL-5J) *per L. Ostrodka*  
Superfund Technical Support Section *Richard L. Ogilvie*  
*2/16/00*

TO: Data User: PRP

We have reviewed the data for the following case:

SITE NAME: HIMCO DUMP (IN)

*with order*  
~~CASE~~ NUMBER: 9910316 SDG NUMBER: \_\_\_\_\_

Number and Type of Samples: 10 VOST cartridges

Sample Numbers: 11025, 11014, 11105, 11106, 11107, 11104, 11015, 11002, 11006

Laboratory: Air Toxics LTD Hrs. for Review: 11.0

Following are our findings:

*The data are usable and acceptable provided that the Laboratory can provide the manual calculations and volume collected for the samples.*

*Richard L. Ogilvie,*

CC: Cecilia Moore  
Region 5 TPO  
Mail Code: SM-5J

NARRATIVE

Page 1 of 6

Laboratory: Air Toxics Ltd  
Site: Himco Dump (IN)

Case:  
SDG: 9910316

Below is a summary of the out-of-control audits and possible effects on the data for this Case/SDG:

Nine VOST Cartridges, numbered 11025, 11014, 11105, 11106, 11107, 11104, 11015, 11002 and 11006, were collected on October 21, 1999. The lab received the samples on October 22, 1999 in good condition. All samples were analyzed for volatile organic analytes. All were analyzed according to modified SW846 8260.

The VOST analyses were performed within the technical holding times of 14 days after sample collection; therefore the results are acceptable.

Reviewed by: T Sedlacek Lockheed Martin/ESAT  
Date: January 21, 2000

## NARRATIVE

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Laboratory: Air Toxics Ltd  
Site: Himco Dump (IN)

Case:  
SDG: 9910316

### 1. HOLDING TIME

Nine VOST Cartridges, numbered 11025, 11014, 11105, 11106, 11107, 11104, 11015, 11002 and 11006, were collected on October 21, 1999. The lab received the samples on October 22, 1999 in good condition. All samples were analyzed for volatile organic analytes. All were analyzed according to modified SW846 8260.

The VOST analyses were performed within the technical holding times of 14 days after sample collection; therefore the results are acceptable.

### 2. GC/MS TUNING AND GC INSTRUMENT PERFORMANCE

All GC/MS tuning complied with mass list and ion abundance criteria for BFB, and all samples were analyzed within the twelve (12) hour periods for instrument performance checks.

### 3. CALIBRATION

Initial and continuing calibrations of the Volatile, standards were evaluated for target compound list and outliers are recorded on the forms included as part of this narrative.

### 4. BLANKS

The lab ran a matrix method blank for each day the VOST cartridges were analyzed. Cartridges used for daily methods blanks were not from the same batch or sampling media. Each of the blanks was labeled as "Lab Blank". All of the blanks had no TCLs or TICs present. Because the lab did not include any sort of identification for the blanks, it would be impossible to determine which samples are associated with which blank.

### 5. SYSTEM MONITORING COMPOUND AND SURROGATE RECOVERY

The volatile system monitoring compounds were within QC required limits for recovery and retention time; with the exception of Toluene-d8 and 4-Bromofluorobenzene in sample 11107. Therefore in sample 11107 A/B all hits should be flagged "J" and non-detects "UJ"

Reviewed by: T Sedlacek Lockheed Martin/ESAT  
Date: January 21, 2000

NARRATIVE

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Laboratory: Air Toxics Ltd  
Site: Himco Dump (IN)

Case:  
SDG: 9910316

6. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Due to the nature of the VOST cartridge matrix it is impossible to perform spiking on the samples. The method requires a batch certification of the VOST cartridges prior to use. The lab did not provide evidence that the pre-certification was performed. All results could be considered suspect due to possible reduced capacity or retention of the VOST media.

7. FIELD BLANK AND FIELD DUPLICATE

The samples did not provide a field blank with this SDG. Due to the collection method a field duplicate can not be collected

8. INTERNAL STANDARDS

The internal standards retention times and area counts for the VOA fraction were all within the required QC limits: with the exception of Chlorobenzene-d5 area in sample 11107A/B which was out of control high. Therefore the analytes quantitated with this internal standard are biased low and hits should be flagged "J" and non-detects "UJ".

9. COMPOUND IDENTIFICATION

Target compounds (TCLs) and Tentatively Identified Compounds (TICs) were identified using a "best fit" library search method.

10. COMPOUND QUANTITATION AND REPORTED DETECTION LIMITS

All target compound quantitation for total ng were properly reported. In this SDG the laboratory suddenly started to report the sample results in ug/m<sup>3</sup>. The laboratory did not provide either copies of the manual calculations or the volume collected for the samples. It should be noted that the apparent "correction factor" from ng to ug/m<sup>3</sup> is not uniform for all detected analytes in the same sample. If the lab can explain or justify the seeming discrepancy the ug/m<sup>3</sup> data is useable otherwise the ug/m<sup>3</sup> data would be unusable and flagged "R

NARRATIVE

Page 4 of 6

Laboratory: Air Toxics Ltd  
Site: Himco Dump (IN)

Case:  
SDG: 9910316

11. SYSTEM PERFORMANCE

GC/MS baseline indicated acceptable performance.

12. ADDITIONAL INFORMATION

Method modifications which could adversely affect data quality:

1. "Cartridges used for daily method blank may or may not be from the same batch or sampling media" as the analyzed samples.
2. "Sampling media provided by the client is batch certified ahead of time, only if client provides blank cartridges"

The lab failed to provide copies of the manual data manipulations performed in this data set. The reviewer is unable to determine what effect those actions have on the overall quality of the data.

In sample 11107A/B the results for Freon 11, and Styrene exceeded the calibration range. The results for Tetrachloroethene saturated the detector. Aside from biasing the results for a particular analyte low, detector saturation could generate false positives and false negatives for the analytes which elute closely with that analyte.

| INSTRUMENT                | DATE/TIME |    | Initial Calibration |        |     | Continuing Calibration |       |     | Continuing Calibration |      |     | Continuing Calibration |      |   |
|---------------------------|-----------|----|---------------------|--------|-----|------------------------|-------|-----|------------------------|------|-----|------------------------|------|---|
|                           | RF        | %D | RRF                 | %RSD   | Q   | RRF                    | %RSD  | Q   | RRF                    | %RSD | Q   | RRF                    | %RSD | Q |
|                           |           |    | 10/28/99            | 0423   |     | 11/02/99               | 0625  |     | 11/03/99               | 0450 |     |                        |      |   |
| 1,1,1-Trichloroethane     |           | 15 | 0.1253              |        |     |                        |       |     | 0.332                  | 16.9 | J/5 |                        |      |   |
| 1,1,2,2-Tetrachloroethane | 0.3       | 30 |                     |        |     |                        |       |     |                        |      |     |                        |      |   |
| 1,1,2-Trichloroethane     |           | 15 |                     |        |     |                        |       |     |                        |      |     |                        |      |   |
| 1,1-Dichloroethane        | 0.1       | 15 |                     |        |     |                        |       |     |                        |      |     |                        |      |   |
| 1,1-Dichloroethane        |           | 30 |                     |        |     |                        |       |     |                        |      |     |                        |      |   |
| 1,2,3-Trichloropropane    |           | 30 |                     |        |     |                        |       |     |                        |      |     |                        |      |   |
| 1,2-Dichloroethane        |           | 15 | 0.3563              |        |     |                        |       |     | 22807                  | 21.2 | J/5 |                        |      |   |
| 1,2-Dichloropropane       |           | 30 |                     |        |     |                        |       |     |                        |      |     |                        |      |   |
| Acetone                   |           | 30 |                     |        |     |                        |       |     |                        |      |     |                        |      |   |
| Acrylonitrile             |           | 15 |                     |        |     |                        |       |     |                        |      |     |                        |      |   |
| Benzene                   |           | 15 | 0.7675              | 33.36  | J/5 |                        |       |     |                        |      |     |                        |      |   |
| Bromodichloromethane      |           | 15 |                     |        |     |                        |       |     |                        |      |     |                        |      |   |
| Bromomethane              | 0.1       | 30 |                     |        |     |                        |       |     | 0.0533                 | 56.7 | J/5 |                        |      |   |
| Carbon Disulfide          |           | 15 | 0.3250              |        |     |                        |       |     | 0.3147                 | 21.1 | J/5 |                        |      |   |
| Carbon Tetrachloride      |           | 15 |                     |        |     |                        |       |     |                        |      |     |                        |      |   |
| Chlorobenzene             | 0.3       | 15 |                     |        |     |                        |       |     |                        |      |     |                        |      |   |
| Chloroethane              |           | 15 | 0.06307             |        |     | 5.1377                 | 0.987 | J/5 | 0.1140                 | 43.3 | J/5 |                        |      |   |
| Chloroethane              |           | 30 |                     |        |     |                        |       |     |                        |      |     |                        |      |   |
| Chloromethane             | 0.1       | 30 |                     |        |     |                        |       |     |                        |      |     |                        |      |   |
| cis-1,3-Dichloropropene   |           | 15 |                     |        |     |                        |       |     |                        |      |     |                        |      |   |
| Dibromochloromethane      |           | 15 |                     |        |     |                        |       |     |                        |      |     |                        |      |   |
| Dibromomethane            |           | 15 |                     |        |     |                        |       |     |                        |      |     |                        |      |   |
| Ethylbenzene              |           | 30 |                     |        |     |                        |       |     |                        |      |     |                        |      |   |
| Trichlorofluoromethane    |           | 15 | 0.57603             |        |     |                        |       |     | 0.34647                | 26.9 | J/5 |                        |      |   |
| Iodomethane               |           | 15 |                     |        |     |                        |       |     |                        |      |     |                        |      |   |
| m-Xylene                  |           | 15 | 0.4642              | 22.49  | J/5 |                        |       |     |                        |      |     |                        |      |   |
| Methylene Chloride        |           | 15 | 0.7346              | 15.056 | J/5 |                        |       |     |                        |      |     |                        |      |   |
| o-Xylene                  |           | 15 | 0.41753             | 22.22  | J/5 |                        |       |     |                        |      |     |                        |      |   |
| Styrene                   |           | 15 | 0.3543              | 23.160 | J/5 |                        |       |     |                        |      |     |                        |      |   |
| Tetrachloroethene         |           | 15 | 0.3377              | 16.276 | J/5 |                        |       |     |                        |      |     |                        |      |   |
| Toluene                   |           | 30 |                     |        |     |                        |       |     |                        |      |     |                        |      |   |
| trans-1,2-Dichloroethene  |           | 15 | 0.2426              | 20.600 | J/5 |                        |       |     |                        |      |     |                        |      |   |
| trans-1,3-Dichloropropene |           | 10 |                     |        |     |                        |       |     |                        |      |     |                        |      |   |
| Trichloroethane           |           | 15 |                     |        |     |                        |       |     |                        |      |     |                        |      |   |
| Vinyl Chloride            |           | 30 |                     |        |     |                        |       |     |                        |      |     |                        |      |   |

Affected Samples

|          |         |         |         |
|----------|---------|---------|---------|
| Lab AUC  | Lab AUC | Lab AUC | Lab AUC |
| Lab AUC  | 1105AB  | 1105AB  | 11104AB |
| 11009 AB | 11106AB | 11104AB | 11023AB |
| 11021AB  | 11107AB | 11015AB | 11017AB |
| 11022AB  | 11065AB | 11002AB | 11013AB |
| 11012A   | 11005/B | 11060AB | 11110AB |
| 11012A   |         | 11011AB |         |
| 11025AB  |         | 11024AB |         |
|          |         |         |         |

**CALIBRATION OUTLIERS  
VOLATILE TCL COMPOUNDS**  
(Page 1 of 1)

CASE/SAS#: 9910310  
COLUMN: \_\_\_\_\_  
HEATED PURGE (Y/N): N

LABORATORY: Air Force LTD  
SITE NAME: H. ...

| Instrument#                | M40H | Initial Cal. |       |     | Contin. Cal. |       |      | Contin. Cal. |       |     | Contin. Cal. |    |    | Contin. Cal. |    |    |
|----------------------------|------|--------------|-------|-----|--------------|-------|------|--------------|-------|-----|--------------|----|----|--------------|----|----|
|                            |      | #            | rf    | %rd | #            | rf    | %d   | #            | rf    | %d  | #            | rf | %d | #            | rf | %d |
| Date/Time:                 |      | 12/28/99     |       |     | 1/16/99      | 0.525 |      | 1/12/99      | 0.560 |     |              |    |    |              |    |    |
| Chloromethane              | 0.01 |              |       |     |              |       |      |              |       |     |              |    |    |              |    |    |
| Bromomethane               | 0.10 | 0.128        |       |     |              |       |      | 0.52         | 56.7  | R   |              |    |    |              |    |    |
| Vinyl chloride             | 0.10 |              |       |     |              |       |      |              |       |     |              |    |    |              |    |    |
| Chloroethane               | 0.01 | 0.03         |       |     | 2.37         | 6.52  | 1.19 | 0.19         | 4.33  | 1/5 |              |    |    |              |    |    |
| Methylene chloride         | 0.01 | 0.278        | 13.5  | 1/5 |              |       |      |              |       |     |              |    |    |              |    |    |
| Acetone                    | 0.01 |              |       |     |              |       |      |              |       |     |              |    |    |              |    |    |
| Carbon disulfide           | 0.01 | 0.78         |       |     |              |       |      | 0.714        | 21.1  | 1/5 |              |    |    |              |    |    |
| 1,1-Dichloroethene         | 0.10 |              |       |     |              |       |      |              |       |     |              |    |    |              |    |    |
| 1,1-Dichloroethane         | 0.20 |              |       |     |              |       |      |              |       |     |              |    |    |              |    |    |
| 1,2-Dichloroethene (total) |      |              |       |     |              |       |      |              |       |     |              |    |    |              |    |    |
| Chloroform                 | 0.20 |              |       |     |              |       |      |              |       |     |              |    |    |              |    |    |
| 1,2-Dichloroethane         | 0.10 | 0.36         |       |     |              |       |      | 0.907        | 26.2  | 1/5 |              |    |    |              |    |    |
| 2-Butanone                 | 0.01 |              |       |     |              |       |      |              |       |     |              |    |    |              |    |    |
| 1,1,1-Trichloroethane      | 0.10 | 0.447        |       |     |              |       |      | 6.33         | 14.4  | 1/5 |              |    |    |              |    |    |
| Carbon tetrachloride       | 0.10 |              |       |     |              |       |      |              |       |     |              |    |    |              |    |    |
| Bromodichloromethane       | 0.20 |              |       |     |              |       |      |              |       |     |              |    |    |              |    |    |
| 1,2-Dichloropropane        |      |              |       |     |              |       |      |              |       |     |              |    |    |              |    |    |
| cis-1,3-Dichloropropene    | 0.20 |              |       |     |              |       |      |              |       |     |              |    |    |              |    |    |
| Trichloroethene            | 0.30 |              |       |     |              |       |      |              |       |     |              |    |    |              |    |    |
| Dibromochloromethane       | 0.10 |              |       |     |              |       |      |              |       |     |              |    |    |              |    |    |
| 1,1,2-Trichloroethane      | 0.10 |              |       |     |              |       |      |              |       |     |              |    |    |              |    |    |
| Benzene                    | 0.50 | 0.757        | 33.3  | 1/5 |              |       |      |              |       |     |              |    |    |              |    |    |
| trans-1,3-Dichloropropene  | 0.10 |              |       |     |              |       |      |              |       |     |              |    |    |              |    |    |
| Bromoform                  | 0.10 |              |       |     |              |       |      |              |       |     |              |    |    |              |    |    |
| 4-Methyl-2-pentanone       | 0.01 |              |       |     |              |       |      |              |       |     |              |    |    |              |    |    |
| 2-Hexanone                 | 0.01 |              |       |     |              |       |      |              |       |     |              |    |    |              |    |    |
| Tetrachloroethene          | 0.20 | 0.784        | 16.27 | 1/5 |              |       |      |              |       |     |              |    |    |              |    |    |
| 1,1,2,2-Tetrachloroethane  | 0.50 |              |       |     |              |       |      |              |       |     |              |    |    |              |    |    |
| Toluene                    | 0.40 |              |       |     |              |       |      |              |       |     |              |    |    |              |    |    |
| Chlorobenzene              | 0.50 |              |       |     |              |       |      |              |       |     |              |    |    |              |    |    |
| Ethylbenzene               | 0.10 |              |       |     |              |       |      |              |       |     |              |    |    |              |    |    |
| Styrene                    | 0.30 | 0.758        | 23.6  | 1/5 |              |       |      |              |       |     |              |    |    |              |    |    |
| Xylene (total)             | 0.30 |              |       |     |              |       |      |              |       |     |              |    |    |              |    |    |
| Toluene-d8                 |      |              |       |     |              |       |      |              |       |     |              |    |    |              |    |    |
| Bromofluorobenzene         | 0.20 |              |       |     |              |       |      |              |       |     |              |    |    |              |    |    |
| 1,2-Dichloroethane-d4      |      |              |       |     |              |       |      |              |       |     |              |    |    |              |    |    |

|                   |         |         |         |       |
|-------------------|---------|---------|---------|-------|
| Samples affected: | Lab B/L | Lab A/M | Lab B/L | •     |
|                   | 11009   | 11105   | 11005   | 11109 |
|                   | 11009   | 11106   | 11004   | 11023 |
|                   | 11021   | 11107   | 11015   | 11057 |
|                   | 11022   | 11005   | 11027   | 11013 |
|                   | 11021   | 11005   | 11006   | 11110 |
|                   | 110128  |         | 11011   |       |
|                   | 11025   |         | 11012   |       |
|                   | 11014   |         | 11014   |       |

Reviewer's Init/Date: JRS 1/20/99 000

J/R = All positive results are estimated "J" and non-detected results are unusable "R"

- = These flags should be applied to the analytes on the sample data sheets.
- # = Minimum Relative Response Factor

Regional Transmittal Form

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION V

DATE:

SUBJECT: Review of Data  
Received for Review on 1/12/2000

FROM: Stephen L. Ostrodka, Chief (HSRL-5J)  
Superfund Technical Support Section

*per [unclear]  
Richard L. Byrd  
2/16/00*

TO: Data User: PRP

We have reviewed the data for the following case:

SITE NAME: HIMCO DUMP (IN)

*work order*  
CASE NUMBER: 9910396 SDG NUMBER: \_\_\_\_\_

Number and Type of Samples: Five VOST cartridges

Sample Numbers: 11204, 11223, 11210, 11225, 11211

Laboratory: Lat Air Toxics Hrs. for Review: 6

Following are our findings:

*The data are reliable and acceptable with the  
qualifications described in the attached narrative.  
Richard L. Byrd*

CC: Cecilia Moore  
Region 5 TPO  
Mail Code: SM-5J

NARRATIVE

Page 1 of 6

Laboratory: Air Toxics Ltd  
Site: Himco Dump (IN)

Case:  
SDG: 9910396

Below is a summary of the out-of-control audits and possible effects on the data for this Case/SDG:

Five VOST Cartridges, numbered 11204, 11223, 11210, 11225, and 1121, were collected on October 25, 1999. The lab received the samples on October 27, 1999 in good condition. All samples were analyzed for volatile organic analytes. All were analyzed according to modified SW846 8260.

The VOST analyses were performed within the technical holding times of 14 days after sample collection; therefore the results are acceptable.

Reviewed by: T Sedlacek Lockheed Martin/ESAT  
Date: January 21, 2000

## NARRATIVE

Page 2 of 6

Laboratory: Air Toxics Ltd  
Site: Himco Dump (IN)

Case:  
SDG: 9910396

### 1. HOLDING TIME

Five VOST Cartridges, numbered 11204, 11223, 11210, 11225, and 1121, were collected on October 25, 1999. The lab received the samples on October 27, 1999 in good condition. All samples were analyzed for volatile organic analytes. All were analyzed according to modified SW846 8260.

The VOST analyses were performed within the technical holding times of 14 days after sample collection; therefore the results are acceptable.

### 2. GC/MS TUNING AND GC INSTRUMENT PERFORMANCE

All GC/MS tuning complied with mass list and ion abundance criteria for BFB, and all samples were analyzed within the twelve (12) hour periods for instrument performance checks.

### 3. CALIBRATION

Initial and continuing calibrations of the Volatile, standards were evaluated for target compound list and outliers are recorded on the forms included as part of this narrative.

### 4. BLANKS

The lab ran a matrix method blank for each day the VOST cartridges were analyzed. Cartridges used for daily methods blanks were not from the same batch or sampling media. Each of the blanks was labeled as "Lab Blank". All of the blanks had no TCLs or TICs present. Because the lab did not include any sort of identification for the blanks, it would be impossible to determine which samples are associated with which blank.

### 5. SYSTEM MONITORING COMPOUND AND SURROGATE RECOVERY

The volatile system monitoring compounds were within QC required limits for recovery and retention time; with the exception of the recovery of Bromofluorobenzene in sample 11225 which was high. Positive results in sample 11225 are qualified "J".

Reviewed by: T Sedlacek Lockheed Martin/ESAT  
Date: January 21, 2000

NARRATIVE

Page 3 of 6

Laboratory: Air Toxics Ltd  
Site: Himco Dump (IN)

Case:  
SDG: 9910396

6. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Due to the nature of the VOST cartridge matrix it is impossible to perform spiking on the samples. The method requires a batch certification of the VOST cartridges prior to use. The lab did not provide evidence that the pre-certification was performed. All results could be considered suspect due to possible reduced capacity or retention of the VOST media.

7. FIELD BLANK AND FIELD DUPLICATE

The samples did not provide a field blank with this SDG. Due to the collection method a field duplicate can not be collected.

8. INTERNAL STANDARDS

The internal standards retention times and area counts for the VOA fraction were all within the required QC limits: with the exception of the area for 1,4-Dichlorobenzene-d4 was out of control low in sample 11210. Therefore in sample 11210 positive results are qualified "J" and non-detects are qualified "UJ"

9. COMPOUND IDENTIFICATION

Target compounds (TCLs) and Tentatively Identified Compounds (TICs) were identified using a "best fit" library search method.

10. COMPOUND QUANTITATION AND REPORTED DETECTION LIMITS

All target compound quantitation was properly reported.

11. SYSTEM PERFORMANCE

GC/MS baseline indicated acceptable performance.

12. ADDITIONAL INFORMATION

Method modifications which could adversely affect data quality:

1. "Cartridges used for daily method blank may or may not be from the same batch or sampling media" as the analyzed

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Date: January 21, 2000

NARRATIVE

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Laboratory: Air Toxics Ltd  
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Case:  
SDG: 9910396

samples.

2. "Sampling media provided by the client is batch certified ahead of time, only if client provides blank cartridges"

The lab failed to provide copies of the manual data manipulations performed in this data set. The reviewer is unable to determine what effect those actions have on the overall quality of the data.

Reviewed by: T Sedlacek Lockheed Martin/ESAT  
Date: January 21, 2000

CALIBRATION OUTLIERS  
VOLATILE TCL COMPOUNDS

(Page 1 of 1)

CASE/SAS#: 9910396  
COLUMN: \_\_\_\_\_  
HEATED PURGE (Y/N): \_\_\_\_\_

LABORATORY: Air Tech LTN  
SITE NAME: Hickory Hill

| Instrument#                | Date/Time: | Initial Cal. |       |       | Contin. Cal. |         |       | Contin. Cal. |    |    | Contin. Cal. |    |    | Contin. Cal. |    |    |   |
|----------------------------|------------|--------------|-------|-------|--------------|---------|-------|--------------|----|----|--------------|----|----|--------------|----|----|---|
|                            |            | #            | rf    | %rsd  | *            | rf      | %d    | *            | rf | %d | *            | rf | %d | *            | rf | %d | * |
| Chloromethane              |            | 0.01         | 0.36  | 244   | 1/65         |         |       |              |    |    |              |    |    |              |    |    |   |
| Bromomethane               |            | 0.10         |       |       |              |         |       |              |    |    |              |    |    |              |    |    |   |
| Vinyl chloride             |            | 0.10         |       |       |              |         |       |              |    |    |              |    |    |              |    |    |   |
| Chloroethane               |            | 0.01         | 1.04  |       | 1/65         | 1.06    | -2.0  | 1/65         |    |    |              |    |    |              |    |    |   |
| Methylene chloride         |            | 0.01         | 11303 | 2706  | 1/65         |         |       |              |    |    |              |    |    |              |    |    |   |
| Acetone                    |            | 0.01         |       |       |              |         |       |              |    |    |              |    |    |              |    |    |   |
| Carbon disulfide           |            | 0.01         | 0.72  |       | 1/65         | 0.653   | -22.3 | 1/65         |    |    |              |    |    |              |    |    |   |
| 1,1-Dichloroethene         |            | 0.10         |       |       |              |         |       |              |    |    |              |    |    |              |    |    |   |
| 1,1-Dichloroethane         |            | 0.20         |       |       |              |         |       |              |    |    |              |    |    |              |    |    |   |
| 1,2-Dichloroethene (total) |            |              |       |       |              |         |       |              |    |    |              |    |    |              |    |    |   |
| Chloroform                 |            | 0.20         |       |       |              |         |       |              |    |    |              |    |    |              |    |    |   |
| 1,2-Dichloroethane         |            | 0.10         |       |       |              |         |       |              |    |    |              |    |    |              |    |    |   |
| 2-Butanone                 |            | 0.01         |       |       |              |         |       |              |    |    |              |    |    |              |    |    |   |
| 1,1,1-Trichloroethane      |            | 0.10         |       |       |              |         |       |              |    |    |              |    |    |              |    |    |   |
| Carbon tetrachloride       |            | 0.10         |       |       |              |         |       |              |    |    |              |    |    |              |    |    |   |
| Bromodichloromethane       |            | 0.20         | 0.54  |       | 1/65         | 0.443   | -28.4 | 1/65         |    |    |              |    |    |              |    |    |   |
| 1,2-Dichloropropane        |            |              |       |       |              |         |       |              |    |    |              |    |    |              |    |    |   |
| cis-1,3-Dichloropropene    |            | 0.20         |       |       |              |         |       |              |    |    |              |    |    |              |    |    |   |
| Trichloroethene            |            | 0.30         |       |       |              |         |       |              |    |    |              |    |    |              |    |    |   |
| Dibromochloromethane       |            | 0.10         | 0.94  |       | 1/65         | 0.36    | -15.7 | 1/65         |    |    |              |    |    |              |    |    |   |
| 1,1,2-Trichloroethane      |            | 0.10         |       |       |              |         |       |              |    |    |              |    |    |              |    |    |   |
| Benzene                    |            | 0.50         |       |       |              |         |       |              |    |    |              |    |    |              |    |    |   |
| tran-1,3-Dichloropropene   |            | 0.10         |       |       |              |         |       |              |    |    |              |    |    |              |    |    |   |
| Bromoform                  |            | 0.10         |       |       |              |         |       |              |    |    |              |    |    |              |    |    |   |
| 4-Methyl-2-pentanone       |            | 0.01         | 0.45  | 32.53 | 1/65         |         |       |              |    |    |              |    |    |              |    |    |   |
| 2-Hexanone                 |            | 0.01         | 0.213 | 32.11 | 1/65         |         |       |              |    |    |              |    |    |              |    |    |   |
| Tetrachloroethene          |            | 0.20         | 0.274 |       | 1/65         | 0.350   | 25.7  | 1/65         |    |    |              |    |    |              |    |    |   |
| 1,1,2,2-Tetrachloroethane  |            | 0.50         |       |       |              |         |       |              |    |    |              |    |    |              |    |    |   |
| Toluene                    |            | 0.40         |       |       |              |         |       |              |    |    |              |    |    |              |    |    |   |
| Chlorobenzene              |            | 0.50         |       |       |              |         |       |              |    |    |              |    |    |              |    |    |   |
| Ethylbenzene               |            | 0.10         |       |       |              |         |       |              |    |    |              |    |    |              |    |    |   |
| Styrene                    |            | 0.30         | 0.577 | 16.48 | 1/65         | 1.012   | -15.7 | 1/65         |    |    |              |    |    |              |    |    |   |
| Xylene (total)             |            | 0.30         |       |       |              |         |       |              |    |    |              |    |    |              |    |    |   |
| Toluene-d8                 |            |              |       |       |              |         |       |              |    |    |              |    |    |              |    |    |   |
| Bromofluorobenzene         |            | 0.20         |       |       |              |         |       |              |    |    |              |    |    |              |    |    |   |
| 1,2-Dichloroethane-d4      |            |              |       |       |              |         |       |              |    |    |              |    |    |              |    |    |   |
| Samples affected:          |            |              |       |       |              | Lab Acc |       |              |    |    |              |    |    |              |    |    |   |
|                            |            |              |       |       |              | 1102/05 | 11206 |              |    |    |              |    |    |              |    |    |   |
|                            |            |              |       |       |              | 1111    | 11208 |              |    |    |              |    |    |              |    |    |   |
|                            |            |              |       |       |              | 11064   |       |              |    |    |              |    |    |              |    |    |   |
|                            |            |              |       |       |              | 11201   |       |              |    |    |              |    |    |              |    |    |   |
|                            |            |              |       |       |              | 11204   |       |              |    |    |              |    |    |              |    |    |   |
|                            |            |              |       |       |              | 11203   |       |              |    |    |              |    |    |              |    |    |   |
|                            |            |              |       |       |              | 11210   |       |              |    |    |              |    |    |              |    |    |   |
|                            |            |              |       |       |              | 11211   |       |              |    |    |              |    |    |              |    |    |   |

Reviewer's Init/Date: JTB 11/20/06

J/R = All positive results are estimated "J" and non-detected results are unusable "R"

- \* = These flags should be applied to the analytes on the sample data sheets.
- # = Minimum Relative Response Factor

CALIBRATION OUTLIER FORM

| INSTRUMENT ASDM.1         | Initial Calibration |      |     |      |        | Continuing Calibration |      |        | Continuing Calibration |      |   | Continuing Calibration |      |   |
|---------------------------|---------------------|------|-----|------|--------|------------------------|------|--------|------------------------|------|---|------------------------|------|---|
|                           | DATE                | TIME | RRF | %RSD | Q      | RRF                    | %RSD | Q      | RRF                    | %RSD | Q | RRF                    | %RSD | Q |
|                           |                     |      |     |      |        |                        |      |        |                        |      |   |                        |      |   |
| 1,1,1-Trichloroethane     |                     |      |     | 15   |        |                        |      |        |                        |      |   |                        |      |   |
| 1,1,2,2-Tetrachloroethane | 0.3                 |      |     | 30   |        |                        |      |        |                        |      |   |                        |      |   |
| 1,1,2-Trichloroethane     |                     |      |     | 15   |        |                        |      |        |                        |      |   |                        |      |   |
| 1,1-Dichloroethane        | 0.1                 |      |     | 15   |        |                        |      |        |                        |      |   |                        |      |   |
| 1,1-Dichloroethene        |                     |      |     | 30   |        |                        |      |        |                        |      |   |                        |      |   |
| 1,2,3-Trichloropropane    |                     |      |     | 30   |        |                        |      |        |                        |      |   |                        |      |   |
| 1,2-Dichloroethane        |                     |      |     | 15   |        |                        |      |        |                        |      |   |                        |      |   |
| 1,2-Dichloropropane       |                     |      |     | 30   |        |                        |      |        |                        |      |   |                        |      |   |
| Acetone                   |                     |      |     | 30   |        |                        |      |        |                        |      |   |                        |      |   |
| Acrylonitrile             |                     |      |     | 15   |        |                        |      |        |                        |      |   |                        |      |   |
| Benzene                   |                     |      |     | 15   |        |                        |      |        |                        |      |   |                        |      |   |
| Bromodichloromethane      |                     |      |     | 15   | 0.501  |                        |      | 0.6433 | -28.4                  | J/05 |   |                        |      |   |
| Bromomethane              | 0.1                 |      |     | 30   |        |                        |      |        |                        |      |   |                        |      |   |
| Bromomethane              |                     |      |     | 30   |        |                        |      |        |                        |      |   |                        |      |   |
| Carbon Disulfide          |                     |      |     | 15   | 0.7239 |                        |      | 0.8853 | -22.3                  | J/05 |   |                        |      |   |
| Carbon Tetrachloride      |                     |      |     | 15   |        |                        |      |        |                        |      |   |                        |      |   |
| Chlorobenzene             | 0.3                 |      |     | 15   |        |                        |      |        |                        |      |   |                        |      |   |
| Chloroethane              |                     |      |     | 15   | 0.1044 |                        |      | 0.664  | -21.0                  | J/05 |   |                        |      |   |
| Chloroform                |                     |      |     | 30   |        |                        |      |        |                        |      |   |                        |      |   |
| Chloromethane             | 0.1                 |      |     | 30   | 0.3624 | 34.4%                  | J/05 |        |                        |      |   |                        |      |   |
| cis-1,3-Dichloropropene   |                     |      |     | 15   |        |                        |      |        |                        |      |   |                        |      |   |
| Dibromochloromethane      |                     |      |     | 15   | 0.2900 |                        |      | 0.336  | -15.7                  | J/05 |   |                        |      |   |
| Dibromomethane            |                     |      |     | 15   |        |                        |      |        |                        |      |   |                        |      |   |
| Ethylbenzene              |                     |      |     | 30   |        |                        |      |        |                        |      |   |                        |      |   |
| Trichlorofluoromethane    |                     |      |     | 15   | 0.3020 |                        |      | 0.1498 | 17.5                   | u/05 |   |                        |      |   |
| Iodomethane               |                     |      |     | 15   | 0.2573 | 15.2%                  | J/05 |        |                        |      |   |                        |      |   |
| m-Xylene                  |                     |      |     | 15   |        |                        |      |        |                        |      |   |                        |      |   |
| Methylene Chloride        |                     |      |     | 15   | 0.3004 | 27.0%                  | J/05 |        |                        |      |   |                        |      |   |
| o-Xylene                  |                     |      |     | 15   |        |                        |      |        |                        |      |   |                        |      |   |
| Styrene                   |                     |      |     | 15   | 0.8770 | 16.5%                  | J/05 | 1.0126 | -15.5                  | J/05 |   |                        |      |   |
| Tetrachloroethene         |                     |      |     | 15   | 0.271  |                        |      | 0.3509 | -25.7                  | J/05 |   |                        |      |   |
| Toluene                   |                     |      |     | 30   |        |                        |      |        |                        |      |   |                        |      |   |
| trans-1,2-Dichloroethene  |                     |      |     | 15   | 0.241  |                        |      | 0.280  | -16.0                  | J/05 |   |                        |      |   |
| trans-1,3-Dichloropropene |                     |      |     | 10   | 0.4578 | 17.5%                  | J/05 | 0.5394 | -28.8                  | J/05 |   |                        |      |   |
| Trichloroethane           |                     |      |     | 15   |        |                        |      |        |                        |      |   |                        |      |   |
| Vinyl Chloride            |                     |      |     | 30   |        |                        |      |        |                        |      |   |                        |      |   |

Affected Samples

|  |                   |  |
|--|-------------------|--|
|  | Lab BULK          |  |
|  | 11102 MB 11200 MB |  |
|  | 11111 MB 11214 MB |  |
|  | 11064 MB          |  |
|  | 11201 MB          |  |
|  | 11209 MB          |  |
|  | 11223 MB          |  |
|  | 11210 MB          |  |

Regional Transmittal Form

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION V

DATE:

SUBJECT: Review of Data  
Received for Review on 1/12/2000

FROM: Stephen L. Ostrodka, Chief (HSRL-5J) *for Steven Arnold*  
Superfund Technical Support Section *Richard & Ryan*  
*2/16/00*

TO: Data User: PRP

We have reviewed the data for the following case:

SITE NAME: HIMCO DUMP (I.W.)

CASE NUMBER: \_\_\_\_\_ SDG NUMBER: 9910432

Number and Type of Samples: Nine VOST Cartridges

Sample Numbers: 11221, 11222, 11218, 11216, 11215, 11219, 11217, 11224

Laboratory: Air TOXICS LTD Hrs. for Review: 10

Following are our findings:

*the data are usable and acceptable with the qualifications described in the attached memorandum  
Richard & Ryan*

CC: Cecilia Moore  
Region 5 TPO  
Mail Code: SM-5J

NARRATIVE

Page 1 of 8

Laboratory: Air Toxics Ltd  
Site: Himco Dump (IN)

Case:  
SDG: 9910432

Below is a summary of the out-of-control audits and possible effects on the data for this Case/SDG:

Nine VOST Cartridges, numbered 11221, 11206, 11218, 11216, 11215, 11215, 11219, 11213, 11217 and 11224, were collected on October 27, 1999. The lab received the samples on October 28, 1999 in good condition. All samples were analyzed for volatile organic analytes. All were analyzed according to modified SW846 8260.

The VOST analyses were performed within the technical holding times of 14 days after sample collection; therefore the results are acceptable.

Reviewed by: T Sedlacek Lockheed Martin/ESAT  
Date: January 21, 2000

## NARRATIVE

Page 2 of 8

Laboratory: Air Toxics Ltd  
Site: Himco Dump (IN)

Case:  
SDG: 9910432

### 1. HOLDING TIME

Nine VOST Cartridges, numbered 11221, 11206, 11218, 11216, 11215, 11215, 11219, 11213, 11217 and 11224, were collected on October 27, 1999. The lab received the samples on October 28, 1999 in good condition. All samples were analyzed for volatile organic analytes. All were analyzed according to modified SW846 8260.

The VOST analyses were performed within the technical holding times of 14 days after sample collection; therefore the results are acceptable.

### 2. GC/MS TUNING AND GC INSTRUMENT PERFORMANCE

All GC/MS tuning complied with mass list and ion abundance criteria for BFB, and all samples were analyzed within the twelve (12) hour periods for instrument performance checks.

### 3. CALIBRATION

Initial and continuing calibrations of the Volatile, standards were evaluated for target compound list and outliers are recorded on the forms included as part of this narrative.

### 4. BLANKS

The lab ran a matrix method blank for each day the VOST cartridges were analyzed. Cartridges used for daily methods blanks were not from the same batch or sampling media. Each of the blanks was labeled as "Lab Blank". All of the blanks had no TCLs or TICs present. Because the lab did not include any sort of identification for the blanks, it would be impossible to determine which samples are associated with which blank.

### 5. SYSTEM MONITORING COMPOUND AND SURROGATE RECOVERY

The volatile system monitoring compounds were within QC required limits for recovery and retention time; therefore the results are acceptable.

Reviewed by: T Sedlacek Lockheed Martin/ESAT  
Date: January 21, 2000

## NARRATIVE

Page 3 of 8

Laboratory: Air Toxics Ltd  
Site: Himco Dump (IN)

Case:  
SDG: 9910432

### 6. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Due to the nature of the VOST cartridge matrix it is impossible to perform spiking on the samples. The method requires a batch certification of the VOST cartridges prior to use. The lab did not provide evidence that the pre-certification was performed. All results could be considered suspect due to possible reduced capacity or retention of the VOST media.

### 7. FIELD BLANK AND FIELD DUPLICATE

The samples did not provide a field blank with this SDG. Due to the collection method a field duplicate can not be collected.

### 8. INTERNAL STANDARDS

The internal standards retention times and area counts for the VOA fraction were all within the required QC limits: with the exception of the areas for Chlorobenzene-d5 and 1,4-Dichlorobenzene-d4 in sample 11215 out of control low and the area of 1,4-Dichlorobenzene-d4 in a lab blank was out of control high. Therefore the positive results for those compounds quantitated with Chlorobenzene-d5 and 1,4-Dichlorobenzene-d4 in sample 11215 are qualified "J" and compounds quantitated with 1,4-Dichlorobenzene-d4 in the lab Blank hits are qualified "J" and non-detects are qualified "UJ"

### 9. COMPOUND IDENTIFICATION

Target compounds (TCLs) and Tentatively Identified Compounds (TICs) were identified using a "best fit" library search method.

### 10. COMPOUND QUANTITATION AND REPORTED DETECTION LIMITS

All target compound quantitation was properly reported.

### 11. SYSTEM PERFORMANCE

GC/MS baseline indicated acceptable performance.

Reviewed by: T Sedlacek Lockheed Martin/ESAT  
Date: January 21, 2000

NARRATIVE

Page 4 of 8

Laboratory: Air Toxics Ltd  
Site: Himco Dump (IN)

Case:  
SDG: 9910432

12. ADDITIONAL INFORMATION

Method modifications which could adversely affect data quality:

1. "Cartridges used for daily method blank may or may not be from the same batch or sampling media" as the analyzed samples.
2. "Sampling media provided by the client is batch certified ahead of time, only if client provides blank cartridges"

The lab failed to provide copies of the manual data manipulations performed in this data set. The reviewer is unable to determine what effect those actions have on the overall quality of the data.

Reviewed by: T Sedlacek Lockheed Martin/ESAT  
Date: January 21, 2000

**CALIBRATION OUTLIERS  
VOLATILE TCL COMPOUNDS**

(Page 1 of 1)

CASE/SAS#: 4910432  
 COLUMN: \_\_\_\_\_  
 HEATED PURGE (Y/N): N

LABORATORY: Air toxics LTD  
 SITE NAME: Home Depot

| Instrument#                | Initial Cal.  |       |         | Contin. Cal. |       |    | Contin. Cal. |    |    | Contin. Cal. |    |    |
|----------------------------|---------------|-------|---------|--------------|-------|----|--------------|----|----|--------------|----|----|
|                            | #             | rf    | %rsd    | #            | rf    | %d | #            | rf | %d | #            | rf | %d |
| Date/Time:                 | 10/31/14 0632 |       |         | 11/5/14 0507 |       |    |              |    |    |              |    |    |
| Chloromethane              | 0.01          | 1367  | 3492 J  |              |       |    |              |    |    |              |    |    |
| Bromomethane               | 0.10          |       |         |              |       |    |              |    |    |              |    |    |
| Vinyl chloride             | 0.10          |       |         |              |       |    |              |    |    |              |    |    |
| Chloroethane               | 0.01          |       |         |              |       |    |              |    |    |              |    |    |
| Methylene chloride         | 0.01          | 10303 | 3242 J  |              |       |    |              |    |    |              |    |    |
| Acetone                    | 0.01          |       |         |              |       |    |              |    |    |              |    |    |
| Carbon disulfide           | 0.01          |       |         |              |       |    |              |    |    |              |    |    |
| 1,1-Dichloroethene         | 0.10          |       |         |              |       |    |              |    |    |              |    |    |
| 1,1-Dichloroethane         | 0.20          |       |         |              |       |    |              |    |    |              |    |    |
| 1,2-Dichloroethene (total) |               |       |         |              |       |    |              |    |    |              |    |    |
| Chloroform                 | 0.20          |       |         |              |       |    |              |    |    |              |    |    |
| 1,2-Dichloroethane         | 0.10          |       |         |              |       |    |              |    |    |              |    |    |
| 2-Butanone                 | 0.01          |       |         |              |       |    |              |    |    |              |    |    |
| 1,1,1-Trichloroethane      | 0.10          |       |         |              |       |    |              |    |    |              |    |    |
| Carbon tetrachloride       | 0.10          |       |         |              |       |    |              |    |    |              |    |    |
| Bromodichloromethane       | 0.20          |       |         |              |       |    |              |    |    |              |    |    |
| 1,2-Dichloropropane        |               |       |         |              |       |    |              |    |    |              |    |    |
| cis-1,3-Dichloropropene    | 0.20          | 1571  | 1258 J  | 10497        | 770 J |    |              |    |    |              |    |    |
| Trichloroethene            | 0.30          |       |         |              |       |    |              |    |    |              |    |    |
| Dibromochloromethane       | 0.10          |       |         |              |       |    |              |    |    |              |    |    |
| 1,1,2-Trichloroethane      | 0.10          |       |         |              |       |    |              |    |    |              |    |    |
| Benzene                    | 0.50          |       |         |              |       |    |              |    |    |              |    |    |
| tran-1,3-Dichloropropene   | 0.10          |       |         |              |       |    |              |    |    |              |    |    |
| Bromoform                  | 0.10          |       |         |              |       |    |              |    |    |              |    |    |
| 4-Methyl-2-pentanone       | 0.01          | 157   | 3253 J  |              |       |    |              |    |    |              |    |    |
| 2-Hexanone                 | 0.01          | 2043  | 3411 J  |              |       |    |              |    |    |              |    |    |
| Tetrachloroethene          | 0.20          |       |         |              |       |    |              |    |    |              |    |    |
| 1,1,2,2-Tetrachloroethane  | 0.50          |       |         |              |       |    |              |    |    |              |    |    |
| Toluene                    | 0.40          |       |         |              |       |    |              |    |    |              |    |    |
| Chlorobenzene              | 0.50          |       |         |              |       |    |              |    |    |              |    |    |
| Ethylbenzene               | 0.10          |       |         |              |       |    |              |    |    |              |    |    |
| Styrene                    | 0.30          | 16877 | 16483 J |              |       |    |              |    |    |              |    |    |
| Xylene (total)             | 0.30          |       |         |              |       |    |              |    |    |              |    |    |
| Toluene-d8                 |               |       |         |              |       |    |              |    |    |              |    |    |
| Bromofluorobenzene         | 0.20          |       |         |              |       |    |              |    |    |              |    |    |
| 1,2-Dichloroethane-d4      |               |       |         |              |       |    |              |    |    |              |    |    |
| Samples affected:          | Lub Bulk      |       |         |              |       |    |              |    |    |              |    |    |
|                            | 11102 11211   |       |         |              |       |    |              |    |    |              |    |    |
|                            | 11111 11206   |       |         |              |       |    |              |    |    |              |    |    |
|                            | 11064 11214   |       |         |              |       |    |              |    |    |              |    |    |
|                            | 11201         |       |         |              |       |    |              |    |    |              |    |    |
|                            | 11204         |       |         |              |       |    |              |    |    |              |    |    |
|                            | 11223         |       |         |              |       |    |              |    |    |              |    |    |
|                            | 11210         |       |         |              |       |    |              |    |    |              |    |    |
|                            | 11225         |       |         |              |       |    |              |    |    |              |    |    |

Reviewer's Init/Date: 9/11/20/2014

J/R = All positive results are estimated "J" and non-detected results are unusable "R"

- = These flags should be applied to the analytes on the sample data sheets.
- # = Minimum Relative Response Factor

CALIBRATION OUTLIER FORM

| INSTRUMENT #550 N.1       |      |      | Initial Calibration |        |      | Continuing Calibration |      |   | Continuing Calibration |      |   | Continuing Calibration |      |
|---------------------------|------|------|---------------------|--------|------|------------------------|------|---|------------------------|------|---|------------------------|------|
|                           | DATE | TIME | RRF                 | %RSD   | Q    | RRF                    | %RSD | Q | RRF                    | %RSD | Q | RRF                    | %RSD |
| 1,1,1-Trichloroethane     |      | 15   |                     |        |      |                        |      |   |                        |      |   |                        |      |
| 1,1,2,2-Tetrachloroethane | 0.3  | 30   |                     |        |      |                        |      |   |                        |      |   |                        |      |
| 1,1,2-Trichloroethane     |      | 15   |                     |        |      |                        |      |   |                        |      |   |                        |      |
| 1,1-Dichloroethane        | 0.1  | 15   |                     |        |      |                        |      |   |                        |      |   |                        |      |
| 1,1-Dichloroethene        |      | 30   |                     |        |      |                        |      |   |                        |      |   |                        |      |
| 1,2,3-Trichloropropane    |      | 30   |                     |        |      |                        |      |   |                        |      |   |                        |      |
| 1,2-Dichloroethane        |      | 15   |                     |        |      |                        |      |   |                        |      |   |                        |      |
| 1,2-Dichloropropane       |      | 30   |                     |        |      |                        |      |   |                        |      |   |                        |      |
| Acetone                   |      | 30   |                     |        |      |                        |      |   |                        |      |   |                        |      |
| Acrylonitrile             |      | 15   |                     |        |      |                        |      |   |                        |      |   |                        |      |
| Benzene                   |      | 15   |                     |        |      |                        |      |   |                        |      |   |                        |      |
| Bromodichloromethane      |      | 15   | 0.1197              | 25.66  | J/05 |                        |      |   |                        |      |   |                        |      |
| Bromoform                 | 0.1  | 30   |                     |        |      |                        |      |   |                        |      |   |                        |      |
| Bromomethane              |      | 30   |                     |        |      |                        |      |   |                        |      |   |                        |      |
| Carbon Disulfide          |      | 15   |                     |        |      |                        |      |   |                        |      |   |                        |      |
| Carbon Tetrachloride      |      | 15   |                     |        |      |                        |      |   |                        |      |   |                        |      |
| Chlorobenzene             | 0.3  | 15   |                     |        |      |                        |      |   |                        |      |   |                        |      |
| Chloroethane              |      | 15   |                     |        |      |                        |      |   |                        |      |   |                        |      |
| Chloroform                |      | 30   |                     |        |      |                        |      |   |                        |      |   |                        |      |
| Chloromethane             | 0.1  | 30   | 0.3076              | 34.62  | J/05 |                        |      |   |                        |      |   |                        |      |
| cis-1,3-Dichloropropene   |      | 15   |                     |        |      |                        |      |   |                        |      |   |                        |      |
| Dibromochloromethane      |      | 15   |                     |        |      |                        |      |   |                        |      |   |                        |      |
| Dibromomethane            |      | 15   |                     |        |      |                        |      |   |                        |      |   |                        |      |
| Ethylbenzene              |      | 30   |                     |        |      |                        |      |   |                        |      |   |                        |      |
| Trichlorofluoromethane    |      | 15   |                     |        |      |                        |      |   |                        |      |   |                        |      |
| Iodomethane               |      | 15   | 0.259               | 14.22  | J/05 |                        |      |   |                        |      |   |                        |      |
| m,p-Xylene                |      | 15   |                     |        |      |                        |      |   |                        |      |   |                        |      |
| Methylene Chloride        |      | 15   | 0.3036              | 27.02  | J/05 |                        |      |   |                        |      |   |                        |      |
| o-Xylene                  |      | 15   |                     |        |      |                        |      |   |                        |      |   |                        |      |
| Styrene                   |      | 15   | 0.277               | 16.45  | J/05 |                        |      |   |                        |      |   |                        |      |
| Tetrachloroethene         |      | 15   |                     |        |      |                        |      |   |                        |      |   |                        |      |
| Toluene                   |      | 30   |                     |        |      |                        |      |   |                        |      |   |                        |      |
| trans-1,2-Dichloroethene  |      | 15   |                     |        |      |                        |      |   |                        |      |   |                        |      |
| trans-1,3-Dichloropropene | 10   |      | 0.4574              | 17.637 | J/05 |                        |      |   |                        |      |   |                        |      |
| Trichloroethane           |      | 15   |                     |        |      |                        |      |   |                        |      |   |                        |      |
| Vinyl Chloride            |      | 30   |                     |        |      |                        |      |   |                        |      |   |                        |      |

Affected Samples

|  |           |           |
|--|-----------|-----------|
|  | Lab Book  |           |
|  | 11102 #19 |           |
|  | 11111 #18 | 11211 #13 |
|  | 11201 #13 | 11206 #18 |
|  | 11201 #18 | 11215 #13 |
|  | 11204 #13 |           |
|  | 11223 #18 |           |
|  | 11210 #18 |           |

**CALIBRATION OUTLIERS  
VOLATILE TCL COMPOUNDS**

(Page 1 of 1)

CASE/SAS#: 99104 3L  
 COLUMN: \_\_\_\_\_  
 HEATED PURGE (Y/N): N

LABORATORY: HITOXIOS LTD  
 SITE NAME: WATER DUKKI

| Instrument#                | Date/Time: | Initial Cal. |       |       | Contin. Cal. |    |    | Contin. Cal. |    |    | Contin. Cal. |    |    | Contin. Cal. |    |    |   |
|----------------------------|------------|--------------|-------|-------|--------------|----|----|--------------|----|----|--------------|----|----|--------------|----|----|---|
|                            |            | #            | rf    | %rsd  | *            | rf | %d | * | rf | %d | * | rf | %d | * | rf | %d | * |
| Chloromethane              |            | 0.01         |       |       |              |    |    |              |    |    |              |    |    |              |    |    |   |
| Bromomethane               |            | 0.10         | 0.171 | 73.15 | J            |    |    |              |    |    |              |    |    |              |    |    |   |
| Vinyl chloride             |            | 0.10         |       |       |              |    |    |              |    |    |              |    |    |              |    |    |   |
| Chloroethane               |            | 0.01         |       |       |              |    |    |              |    |    |              |    |    |              |    |    |   |
| Methylene chloride         |            | 0.01         |       |       |              |    |    |              |    |    |              |    |    |              |    |    |   |
| Acetone                    |            | 0.01         |       |       |              |    |    |              |    |    |              |    |    |              |    |    |   |
| Carbon disulfide           |            | 0.01         |       |       |              |    |    |              |    |    |              |    |    |              |    |    |   |
| 1,1-Dichloroethene         |            | 0.10         |       |       |              |    |    |              |    |    |              |    |    |              |    |    |   |
| 1,1-Dichloroethane         |            | 0.20         |       |       |              |    |    |              |    |    |              |    |    |              |    |    |   |
| 1,2-Dichloroethene (total) |            |              |       |       |              |    |    |              |    |    |              |    |    |              |    |    |   |
| Chloroform                 |            | 0.20         |       |       |              |    |    |              |    |    |              |    |    |              |    |    |   |
| 1,2-Dichloroethane         |            | 0.10         |       |       |              |    |    |              |    |    |              |    |    |              |    |    |   |
| 2-Butanone                 |            | 0.01         |       |       |              |    |    |              |    |    |              |    |    |              |    |    |   |
| 1,1,1-Trichloroethane      |            | 0.10         |       |       |              |    |    |              |    |    |              |    |    |              |    |    |   |
| Carbon tetrachloride       |            | 0.10         |       |       |              |    |    |              |    |    |              |    |    |              |    |    |   |
| Bromodichloromethane       |            | 0.20         |       |       |              |    |    |              |    |    |              |    |    |              |    |    |   |
| 1,2-Dichloropropane        |            |              |       |       |              |    |    |              |    |    |              |    |    |              |    |    |   |
| cis-1,3-Dichloropropene    |            | 0.20         |       |       |              |    |    |              |    |    |              |    |    |              |    |    |   |
| Trichloroethene            |            | 0.30         |       |       |              |    |    |              |    |    |              |    |    |              |    |    |   |
| Dibromochloromethane       |            | 0.10         |       |       |              |    |    |              |    |    |              |    |    |              |    |    |   |
| 1,1,2-Trichloroethane      |            | 0.10         |       |       |              |    |    |              |    |    |              |    |    |              |    |    |   |
| Benzene                    |            | 0.50         | 0.199 | 15.47 | J            |    |    |              |    |    |              |    |    |              |    |    |   |
| trans-1,3-Dichloropropene  |            | 0.10         |       |       |              |    |    |              |    |    |              |    |    |              |    |    |   |
| Bromoform                  |            | 0.10         |       |       |              |    |    |              |    |    |              |    |    |              |    |    |   |
| 4-Methyl-2-pentanone       |            | 0.01         |       |       |              |    |    |              |    |    |              |    |    |              |    |    |   |
| 2-Hexanone                 |            | 0.01         |       |       |              |    |    |              |    |    |              |    |    |              |    |    |   |
| Tetrachloroethene          |            | 0.20         |       |       |              |    |    |              |    |    |              |    |    |              |    |    |   |
| 1,1,2,2-Tetrachloroethane  |            | 0.50         |       |       |              |    |    |              |    |    |              |    |    |              |    |    |   |
| Toluene                    |            | 0.40         |       |       |              |    |    |              |    |    |              |    |    |              |    |    |   |
| Chlorobenzene              |            | 0.50         |       |       |              |    |    |              |    |    |              |    |    |              |    |    |   |
| Ethylbenzene               |            | 0.10         |       |       |              |    |    |              |    |    |              |    |    |              |    |    |   |
| Styrene                    |            | 0.30         |       |       |              |    |    |              |    |    |              |    |    |              |    |    |   |
| Xylene (total)             |            | 0.30         |       |       |              |    |    |              |    |    |              |    |    |              |    |    |   |
| Toluene-d8                 |            |              |       |       |              |    |    |              |    |    |              |    |    |              |    |    |   |
| Bromofluorobenzene         |            | 0.20         |       |       |              |    |    |              |    |    |              |    |    |              |    |    |   |
| 1,2-Dichloroethane-d4      |            |              |       |       |              |    |    |              |    |    |              |    |    |              |    |    |   |
| Samples affected:          |            |              |       |       |              |    |    |              |    |    |              |    |    |              |    |    |   |
|                            |            |              |       |       |              |    |    |              |    |    |              |    |    |              |    |    |   |
|                            |            |              |       |       |              |    |    |              |    |    |              |    |    |              |    |    |   |
|                            |            |              |       |       |              |    |    |              |    |    |              |    |    |              |    |    |   |
|                            |            |              |       |       |              |    |    |              |    |    |              |    |    |              |    |    |   |
|                            |            |              |       |       |              |    |    |              |    |    |              |    |    |              |    |    |   |
|                            |            |              |       |       |              |    |    |              |    |    |              |    |    |              |    |    |   |
|                            |            |              |       |       |              |    |    |              |    |    |              |    |    |              |    |    |   |
|                            |            |              |       |       |              |    |    |              |    |    |              |    |    |              |    |    |   |

Reviewer's Init/Date: PKS/30/2022

J/R = All positive results are estimated "J" and non-detected results are unusable "R"  
 \* = These flags should be applied to the analytes on the sample data sheets.  
 # = Minimum Relative Response Factor

CALIBRATION CHECKER FORM

| INSTRUMENT # <i>504</i>   | DATE/TIME |    | Initial Calibration |                 |              | Continuing Calibration |                |             | Continuing Calibration |      |   | Continuing Calibration |      |
|---------------------------|-----------|----|---------------------|-----------------|--------------|------------------------|----------------|-------------|------------------------|------|---|------------------------|------|
|                           | RF        | %D | RRF                 | %RSD            | Q            | RRF                    | %RSD           | Q           | RRF                    | %RSD | Q | RRF                    | %RSD |
|                           |           |    |                     | <i>11/05/99</i> | <i>13.16</i> |                        | <i>11/6/99</i> | <i>1005</i> |                        |      |   |                        |      |
| 1,1,1-Trichloroethane     |           | 15 |                     |                 |              |                        |                |             |                        |      |   |                        |      |
| 1,1,2,2-Tetrachloroethane | 0.3       | 30 |                     |                 |              |                        |                |             |                        |      |   |                        |      |
| 1,1,2-Trichloroethane     |           | 15 |                     |                 |              |                        |                |             |                        |      |   |                        |      |
| 1,1-Dichloroethane        | 0.1       | 15 |                     |                 |              |                        |                |             |                        |      |   |                        |      |
| 1,1-Dichloroethene        |           | 30 |                     |                 |              |                        |                |             |                        |      |   |                        |      |
| 1,2,3-Trichloropropane    |           | 30 |                     |                 |              |                        |                |             |                        |      |   |                        |      |
| 1,2-Dichloroethane        |           | 15 |                     |                 |              |                        |                |             |                        |      |   |                        |      |
| 1,2-Dichloropropane       |           | 30 |                     |                 |              |                        |                |             |                        |      |   |                        |      |
| Acetone                   |           | 30 |                     |                 |              |                        |                |             |                        |      |   |                        |      |
| Acrylonitrile             |           | 15 |                     |                 |              |                        |                |             |                        |      |   |                        |      |
| Benzene                   |           | 15 | <i>11/99</i>        | <i>15476</i>    | <i>5/05</i>  |                        |                |             |                        |      |   |                        |      |
| Bromodichloromethane      |           | 15 |                     |                 |              |                        |                |             |                        |      |   |                        |      |
| Bromoform                 | 0.1       | 30 |                     |                 |              |                        |                |             |                        |      |   |                        |      |
| Bromomethane              |           | 30 | <i>0.1714</i>       | <i>33.05</i>    | <i>5/05</i>  |                        |                |             |                        |      |   |                        |      |
| Carbon Disulfide          |           | 15 |                     |                 |              |                        |                |             |                        |      |   |                        |      |
| Carbon Tetrachloride      |           | 15 |                     |                 |              |                        |                |             |                        |      |   |                        |      |
| Chlorobenzene             | 0.3       | 15 |                     |                 |              |                        |                |             |                        |      |   |                        |      |
| Chloroethane              |           | 15 |                     |                 |              |                        |                |             |                        |      |   |                        |      |
| Chloroform                |           | 30 |                     |                 |              |                        |                |             |                        |      |   |                        |      |
| Chloromethane             | 0.1       | 30 |                     |                 |              |                        |                |             |                        |      |   |                        |      |
| cis-1,2-Dichloropropene   |           | 15 |                     |                 |              |                        |                |             |                        |      |   |                        |      |
| Dibromochloromethane      |           | 15 |                     |                 |              |                        |                |             |                        |      |   |                        |      |
| Dibromomethane            |           | 15 |                     |                 |              |                        |                |             |                        |      |   |                        |      |
| Ethylbenzene              |           | 30 |                     |                 |              |                        |                |             |                        |      |   |                        |      |
| Trichlorofluoromethane    |           | 15 |                     |                 |              |                        |                |             |                        |      |   |                        |      |
| Iodomethane               |           | 15 | <i>0.20706</i>      | <i>36.525</i>   |              |                        |                |             |                        |      |   |                        |      |
| m,p-Xylene                |           | 15 |                     |                 |              |                        |                |             |                        |      |   |                        |      |
| Methylene Chloride        |           | 15 |                     |                 |              |                        |                |             |                        |      |   |                        |      |
| o-Xylene                  |           | 15 |                     |                 |              |                        |                |             |                        |      |   |                        |      |
| Styrene                   |           | 15 |                     |                 |              |                        |                |             |                        |      |   |                        |      |
| Tetrachloroethene         |           | 15 |                     |                 |              |                        |                |             |                        |      |   |                        |      |
| Toluene                   |           | 30 |                     |                 |              |                        |                |             |                        |      |   |                        |      |
| trans-1,2-Dichloroethene  |           | 15 |                     |                 |              |                        |                |             |                        |      |   |                        |      |
| trans-1,3-Dichloropropene |           | 10 |                     |                 |              |                        |                |             |                        |      |   |                        |      |
| Trichloroethane           |           | 15 |                     |                 |              |                        |                |             |                        |      |   |                        |      |
| Vinyl Chloride            |           | 30 |                     |                 |              |                        |                |             |                        |      |   |                        |      |

Affected Samples

|                  |  |  |
|------------------|--|--|
| <i>205 A/C</i>   |  |  |
| <i>11221 M/A</i> |  |  |
| <i>11210 M/B</i> |  |  |
| <i>11215 M/B</i> |  |  |
| <i>11214 M/B</i> |  |  |
| <i>11213 M/B</i> |  |  |
| <i>11217 M/B</i> |  |  |
| <i>11224 M/B</i> |  |  |

Regional Transmittal Form

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION V

DATE:

SUBJECT: Review of Data  
Received for Review on 1/12/2000

FROM: Stephen L. Ostrodka, Chief (HSRL-5J)  
Superfund Technical Support Section

*per Steve Ostrodka  
Richard Z Byrnes  
2/16/00*

TO: Data User: PRP

We have reviewed the data for the following case:

SITE NAME: 4IMCO DUMP (IN)

*with order*  
CASE NUMBER: 9910444 SDG NUMBER: \_\_\_\_\_

Number and Type of Samples: Seven VOST cartridges

Sample Numbers: 11206, 11310, 11205, 11203, 11222, 11212, 11207

Laboratory: Air toxics LTD Hrs. for Review: 4

Following are our findings:

*to date are usable and acceptable, with the  
implications described in the attached narrative.  
Richard Z Byrnes*

CC: Cecilia Moore  
Region 5 TPO  
Mail Code: SM-5J

NARRATIVE

Page 1 of 6

Laboratory: Air Toxics Ltd  
Site: Himco Dump (IN)

Case:  
SDG: 9910444

Below is a summary of the out-of-control audits and possible effects on the data for this Case/SDG:

Seven VOST Cartridges, numbered 11208, 11310, 11205, 11203, 11222, 11212, and 11207, were collected on October 28, 1999. The lab received the samples on October 29, 1999 in good condition. All samples were analyzed for volatile organic analytes. All were analyzed according to modified SW846 8260.

The VOST analyses were performed within the technical holding times of 14 days after sample collection; therefore the results are acceptable.

Reviewed by: T Sedlacek Lockheed Martin/ESAT  
Date: February 16, 2000

## NARRATIVE

Page 2 of 6

Laboratory: Air Toxics Ltd  
Site: Himco Dump (IN)

Case:  
SDG: 9910444

### 1. HOLDING TIME

Seven VOST Cartridges, numbered 11208, 11310, 11205, 11203, 11222, 11212, and 11207, were collected on October 28, 1999. The lab received the samples on October 29, 1999 in good condition. All samples were analyzed for volatile organic analytes. All were analyzed according to modified SW846 8260.

The VOST analyses were performed within the technical holding times of 14 days after sample collection; therefore the results are acceptable.

### 2. GC/MS TUNING AND GC INSTRUMENT PERFORMANCE

All GC/MS tuning complied with mass list and ion abundance criteria for BFB, and all samples were analyzed within the twelve (12) hour periods for instrument performance checks.

### 3. CALIBRATION

Initial and continuing calibrations of the Volatile, standards were evaluated for target compound list and outliers are recorded on the forms included as part of this narrative.

### 4. BLANKS

The lab ran a matrix method blank for each day the VOST cartridges were analyzed. Cartridges used for daily methods blanks were not from the same batch or sampling media. Each of the blanks was labeled as "Lab Blank". All of the blanks had no TCLs or TICs present. Because the lab did not include any sort of identification for the blanks, it would be impossible to determine which samples are associated with which blank.

### 5. SYSTEM MONITORING COMPOUND AND SURROGATE RECOVERY

The volatile system monitoring compounds were within QC required limits for recovery and retention time; therefore the results are acceptable.

Reviewed by: T Sedlacek Lockheed Martin/ESAT  
Date: February 16, 2000

## NARRATIVE

Page 3 of 6

Laboratory: Air Toxics Ltd  
Site: Himco Dump (IN)

Case:  
SDG: 9910444

### 6. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Due to the nature of the VOST cartridge matrix it is impossible to perform spiking on the samples. The method requires a batch certification of the VOST cartridges prior to use. The lab did not provide evidence that the pre-certification was performed. All results could be considered suspect due to possible reduced capacity or retention of the VOST media.

### 7. FIELD BLANK AND FIELD DUPLICATE

The samples did not provide a field blank with this SDG. Due the collection method a field duplicate can not be collected.

### 8. INTERNAL STANDARDS

The internal standards retention times and area counts for the VOA fraction were all within the required QC limits: with the exception of:

The area for 1,4-Dichlorobenzene was out of control low in samples 11310, and 11208 and high in a lab blank.

The area for 1,4-Dichlorobenzene was out of control high in a lab blank.

The area of Chlorobenzene-d5, Fluorobenzene and 1,4-Dichlorobenzene were out of control low in sample 11208.

Therefore in the above listed samples positive results are qualified estimated "J" and non-detects are qualified "UJ"

### 9. COMPOUND IDENTIFICATION

Target compounds (TCLs) and Tentatively Identified Compounds (TICs) were identified using a "best fit" library search method.

### 10. COMPOUND QUANTITATION AND REPORTED DETECTION LIMITS

All target compound quantitation was properly reported.

### 11. SYSTEM PERFORMANCE

GC/MS baseline indicated acceptable performance.

Reviewed by: T Sedlacek Lockheed Martin/ESAT  
Date: February 16, 2000

NARRATIVE

Page 4 of 6

Laboratory: Air Toxics Ltd  
Site: Himco Dump (IN)

Case:  
SDG: 9910444

12. ADDITIONAL INFORMATION

Method modifications which could adversely affect data quality:

1. "Cartridges used for daily method blank may or may not be from the same batch or sampling media" as the analyzed samples.
2. "Sampling media provided by the client is batch certified ahead of time, only if client provides blank cartridges"

The lab failed to provide copies of the manual data manipulations performed in this data set. The reviewer is unable to determine what effect those actions have on the overall quality of the data.

Reviewed by: T Sedlacek Lockheed Martin/ESAT  
Date: February 16, 2000

**CALIBRATION OUTLIERS  
VOLATILE TCL COMPOUNDS**

(Page 1 of 1)

CASE/SAS#: 1910444  
 COLUMN: \_\_\_\_\_  
 HEATED PURGE (Y/N): N

LABORATORY: Ohio Toxic  
 SITE NAME: Home Run

| Instrument#                | Date/Time: | Initial Cal. |    |      | Contin. Cal. |         |       | Contin. Cal. |         |    | Contin. Cal. |    |    | Contin. Cal. |    |    |
|----------------------------|------------|--------------|----|------|--------------|---------|-------|--------------|---------|----|--------------|----|----|--------------|----|----|
|                            |            | #            | rf | %rsd | #            | rf      | %d    | #            | rf      | %d | #            | rf | %d | #            | rf | %d |
| Chloromethane              |            | 0.01         |    |      |              |         |       |              |         |    |              |    |    |              |    |    |
| Bromomethane               |            | 0.10         |    |      |              |         |       |              |         |    |              |    |    |              |    |    |
| Vinyl chloride             |            | 0.10         |    |      |              |         |       |              |         |    |              |    |    |              |    |    |
| Chloroethane               |            | 0.01         |    |      |              |         |       |              |         |    |              |    |    |              |    |    |
| Methylene chloride         |            | 0.01         |    |      |              |         |       |              |         |    |              |    |    |              |    |    |
| Acetone                    |            | 0.01         |    |      |              |         |       |              |         |    |              |    |    |              |    |    |
| Carbon disulfide           |            | 0.01         |    |      |              |         |       |              |         |    |              |    |    |              |    |    |
| 1,1-Dichloroethene         |            | 0.10         |    |      |              |         |       |              |         |    |              |    |    |              |    |    |
| 1,1-Dichloroethane         |            | 0.20         |    |      |              |         |       |              |         |    |              |    |    |              |    |    |
| 1,2-Dichloroethene (total) |            |              |    |      |              |         |       |              |         |    |              |    |    |              |    |    |
| Chloroform                 |            | 0.20         |    |      |              |         |       |              |         |    |              |    |    |              |    |    |
| 1,2-Dichloroethane         |            | 0.10         |    |      |              |         |       |              |         |    |              |    |    |              |    |    |
| 2-Butanone                 |            | 0.01         |    |      |              |         |       |              |         |    |              |    |    |              |    |    |
| 1,1,1-Trichloroethane      |            | 0.10         |    |      |              |         |       |              |         |    |              |    |    |              |    |    |
| Carbon tetrachloride       |            | 0.10         |    |      |              |         |       |              |         |    |              |    |    |              |    |    |
| Bromodichloromethane       |            | 0.20         |    |      |              |         |       |              |         |    |              |    |    |              |    |    |
| 1,2-Dichloropropane        |            |              |    |      |              |         |       |              |         |    |              |    |    |              |    |    |
| cis-1,3-Dichloropropene    |            | 0.20         |    |      |              |         |       |              |         |    |              |    |    |              |    |    |
| Trichloroethene            |            | 0.30         |    |      |              |         |       |              |         |    |              |    |    |              |    |    |
| Dibromochloromethane       |            | 0.10         |    |      |              |         |       |              |         |    |              |    |    |              |    |    |
| 1,1,2-Trichloroethane      |            | 0.10         |    |      |              |         |       |              |         |    |              |    |    |              |    |    |
| Benzene                    |            | 0.50         |    |      |              |         |       |              |         |    |              |    |    |              |    |    |
| trans-1,3-Dichloropropene  |            | 0.10         |    |      |              |         |       |              |         |    |              |    |    |              |    |    |
| Bromoform                  |            | 0.10         |    |      |              |         |       |              |         |    |              |    |    |              |    |    |
| 4-Methyl-2-pentanone       |            | 0.01         |    |      |              |         |       |              |         |    |              |    |    |              |    |    |
| 2-Hexanone                 |            | 0.01         |    |      |              |         |       |              |         |    |              |    |    |              |    |    |
| Tetrachloroethene          |            | 0.20         |    |      |              |         |       |              |         |    |              |    |    |              |    |    |
| 1,1,2,2-Tetrachloroethane  |            | 0.50         |    |      |              |         |       |              |         |    |              |    |    |              |    |    |
| Toluene                    |            | 0.40         |    |      |              |         |       |              |         |    |              |    |    |              |    |    |
| Chlorobenzene              |            | 0.50         |    |      |              |         |       |              |         |    |              |    |    |              |    |    |
| Ethylbenzene               |            | 0.10         |    |      |              |         |       |              |         |    |              |    |    |              |    |    |
| Styrene                    |            | 0.30         |    |      |              |         |       |              |         |    |              |    |    |              |    |    |
| Xylene (total)             |            | 0.30         |    |      |              |         |       |              |         |    |              |    |    |              |    |    |
| Toluene-d8                 |            |              |    |      |              |         |       |              |         |    |              |    |    |              |    |    |
| Bromofluorobenzene         |            | 0.20         |    |      |              |         |       |              |         |    |              |    |    |              |    |    |
| 1,2-Dichloroethane-d4      |            |              |    |      |              |         |       |              |         |    |              |    |    |              |    |    |
| Samples affected:          |            |              |    |      |              |         |       |              |         |    |              |    |    |              |    |    |
|                            |            |              |    |      |              | Lab BLK |       |              | Lab BLK |    |              |    |    |              |    |    |
|                            |            |              |    |      |              | 11221   | 11205 |              | 11206   |    |              |    |    |              |    |    |
|                            |            |              |    |      |              | 11216   | 11203 |              | 11207   |    |              |    |    |              |    |    |
|                            |            |              |    |      |              | 11215   | 11222 |              | 11316   |    |              |    |    |              |    |    |
|                            |            |              |    |      |              | 11219   | 11212 |              | 11313   |    |              |    |    |              |    |    |
|                            |            |              |    |      |              | 11213   |       |              |         |    |              |    |    |              |    |    |
|                            |            |              |    |      |              | 11217   |       |              |         |    |              |    |    |              |    |    |
|                            |            |              |    |      |              | 11224   |       |              |         |    |              |    |    |              |    |    |
|                            |            |              |    |      |              | 11310   |       |              |         |    |              |    |    |              |    |    |

Reviewer's Init/Date: JR/ret

J/R = All positive results are estimated "J" and non-detected results are unusable "R"  
 \* = These flags should be applied to the analytes on the sample data sheets.  
 # = Minimum Relative Response Factor

CALIBRATION CHECKER FORM

| INSTRUMENT MS/DI#         | Initial Calibration |     |      | Recovery Calibration |        |      | Duplicate Calibration |       |        | Comparing Calibration |      |   |
|---------------------------|---------------------|-----|------|----------------------|--------|------|-----------------------|-------|--------|-----------------------|------|---|
|                           | DATE/TIME           | RRF | %RSD | RRF                  | %RSD   | Q    | RRF                   | %RSD  | Q      | RRF                   | %RSD | Q |
| 1,1,1-Trichloroethane     |                     |     | 15   |                      |        |      |                       |       |        |                       |      |   |
| 1,1,2,2-Tetrachloroethane | 0.3                 |     | 30   |                      |        |      |                       |       |        |                       |      |   |
| 1,1,2-Trichloroethane     |                     |     | 15   |                      |        |      |                       |       |        |                       |      |   |
| 1,1-Dichloroethane        | 0.1                 |     | 15   |                      |        |      |                       |       |        |                       |      |   |
| 1,1-Dichloroethene        |                     |     | 30   |                      |        |      |                       |       |        |                       |      |   |
| 1,2,3-Trichloropropane    |                     |     | 30   |                      |        |      |                       |       |        |                       |      |   |
| 1,2-Dichloroethane        |                     |     | 15   |                      |        |      |                       |       |        |                       |      |   |
| 1,2-Dichloropropane       |                     |     | 30   |                      |        |      |                       |       |        |                       |      |   |
| Acetone                   |                     |     | 30   | 0.0777               |        |      |                       |       | 0.0922 | 32.7                  | 5/05 |   |
| Acrylonitrile             |                     |     | 15   |                      |        |      |                       |       |        |                       |      |   |
| Benzene                   |                     |     | 15   | 1.144                | 19.476 | 5/05 |                       |       |        |                       |      |   |
| Bromodichloromethane      |                     |     | 15   |                      |        |      |                       |       |        |                       |      |   |
| Bromoform                 | 0.1                 |     | 30   |                      |        |      |                       |       |        |                       |      |   |
| Bromomethane              |                     |     | 30   | 0.17129              | 33.052 | 5/05 | 0.2417                | -41.1 | 5/05   |                       |      |   |
| Carbon Disulfide          |                     |     | 15   |                      |        |      |                       |       |        |                       |      |   |
| Carbon Tetrachloride      |                     |     | 15   |                      |        |      |                       |       |        |                       |      |   |
| Chlorobenzene             | 0.3                 |     | 15   |                      |        |      |                       |       |        |                       |      |   |
| Chloroethane              |                     |     | 15   |                      |        |      |                       |       |        |                       |      |   |
| Chloroform                |                     |     | 30   |                      |        |      |                       |       |        |                       |      |   |
| Chloromethane             | 0.1                 |     | 30   |                      |        |      |                       |       |        |                       |      |   |
| cis-1,2-Dichloroethene    |                     |     | 15   |                      |        |      |                       |       |        |                       |      |   |
| Dibromochloromethane      |                     |     | 15   |                      |        |      |                       |       |        |                       |      |   |
| Dibromomethane            |                     |     | 15   |                      |        |      |                       |       |        |                       |      |   |
| Ethylbenzene              |                     |     | 30   |                      |        |      |                       |       |        |                       |      |   |
| Trichlorofluoromethane    |                     |     | 15   |                      |        |      |                       |       |        |                       |      |   |
| Iodomethane               |                     |     | 15   | 0.2096               | 36.625 | 5/05 |                       |       |        |                       |      |   |
| m-Xylene                  |                     |     | 15   |                      |        |      |                       |       |        |                       |      |   |
| Methylene Chloride        |                     |     | 15   |                      |        |      |                       |       |        |                       |      |   |
| o-Xylene                  |                     |     | 15   |                      |        |      |                       |       |        |                       |      |   |
| Styrene                   |                     |     | 15   |                      |        |      |                       |       |        |                       |      |   |
| Tetrachloroethene         |                     |     | 15   |                      |        |      |                       |       |        |                       |      |   |
| Toluene                   |                     |     | 30   |                      |        |      |                       |       |        |                       |      |   |
| trans-1,2-Dichloroethene  |                     |     | 15   |                      |        |      |                       |       |        |                       |      |   |
| trans-1,3-Dichloropropane |                     |     | 10   |                      |        |      |                       |       |        |                       |      |   |
| Trichloroethane           |                     |     | 15   |                      |        |      |                       |       |        |                       |      |   |
| Vinyl Chloride            |                     |     | 30   |                      |        |      |                       |       |        |                       |      |   |

Affected Samples

|  | 605 A/C | 405 A/C |
|--|---------|---------|
|  | 11221   | 11205   |
|  | 11216   | 11203   |
|  | 11215   | 11222   |
|  | 11219   | 11212   |
|  | 11213   |         |
|  | 11217   |         |
|  | 11224   |         |

5/15

Regional Transmittal Form

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION V

DATE:

SUBJECT: Review of Data  
Received for Review on 1/12/2000

FROM: Stephen L. Ostrodka, Chief (HSRL-SJ) *for Steven Ostrodka*  
Superfund Technical Support Section *Richard L. Byrd*  
*2/16/00*

TO: Data User: PRP

We have reviewed the data for the following case:

SITE NAME: HIMCO DUMP (IN)

*work order*  
~~CASE~~ NUMBER: 9910471 SDG NUMBER: \_\_\_\_\_

Number and Type of Samples: Six VOST cartridges

Sample Numbers: 11316, 11313, 11311, 11315, 11317, 11304

Laboratory: Air Toxic LTD Hrs. for Review: 4

Following are our findings:

*The data are usable and acceptable with the  
qualifications described in the attached memorandum  
Richard L. Byrd*

CC: Cecilia Moore  
Region 5 TPO  
Mail Code: SM-SJ

NARRATIVE

Page 1 of 8

Laboratory: Air Toxics Ltd  
Site: Himco Dump (IN)

Case:  
SDG: 9910471

Below is a summary of the out-of-control audits and possible effects on the data for this Case/SDG:

Six VOST Cartridges, numbered 11316, 11313, 11311, 11315, 11317, and 11304, were collected on October 22, 1999. The lab received the samples on October 30, 1999 in good condition. All samples were analyzed for volatile organic analytes. All were analyzed according to modified SW846 8260.

The VOST analyses were performed within the technical holding times of 14 days after sample collection; therefore the results are acceptable.

Reviewed by: T Sedlacek Lockheed Martin/ESAT  
Date: January 21, 2000

## NARRATIVE

Page 2 of 8

Laboratory: Air Toxics Ltd  
Site: Himco Dump (IN)

Case:  
SDG: 9910471

### 1. HOLDING TIME

Six VOST Cartridges, numbered 11316, 11313, 11311, 11315, 11317, and 11304, were collected on October 229, 1999. The lab received the samples on October 30, 1999 in good condition. All samples were analyzed for volatile organic analytes. All were analyzed according to modified SW846 8260.

The VOST analyses were performed within the technical holding times of 14 days after sample collection; therefore the results are acceptable.

### 2. GC/MS TUNING AND GC INSTRUMENT PERFORMANCE

All GC/MS tuning complied with mass list and ion abundance criteria for BFB, and all samples were analyzed within the twelve (12) hour periods for instrument performance checks.

### 3. CALIBRATION

Initial and continuing calibrations of the Volatile, standards were evaluated for target compound list and outliers are recorded on the forms included as part of this narrative.

### 4. BLANKS

The lab ran a matrix method blank for each day the VOST cartridges were analyzed. Cartridges used for daily methods blanks were not from the same batch or sampling media. Each of the blanks was labeled as "Lab Blank". All of the blanks had no TCLs or TICs present. Because the lab did not include any sort of identification for the blanks, it would be impossible to determine which samples are associated with which blank.

### 5. SYSTEM MONITORING COMPOUND AND SURROGATE RECOVERY

The volatile system monitoring compounds were within QC required limits for recovery and retention time; with the exception of:

The recovery of 1,2-Dichloroethane-d4 was out of control high in samples 11316 and 11313.

Therefore all positive results in samples 11316 and 11313

Reviewed by: T Sedlacek Lockheed Martin/ESAT  
Date: January 21, 2000

NARRATIVE

Page 3 of 8

Laboratory: Air Toxics Ltd  
Site: Himco Dump (IN)

Case:  
SDG: 9910471

are qualified "J" estimated.

6. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Due to the nature of the VOST cartridge matrix it is impossible to perform spiking on the samples. The method requires a batch certification of the VOST cartridges prior to use. The lab did not provide evidence that the pre-certification was performed. All results could be considered suspect due to possible reduced capacity or retention of the VOST media.

7. FIELD BLANK AND FIELD DUPLICATE

The samples did not provide a field blank with this SDG. Due the collection method a field duplicate can not be collected.

8. INTERNAL STANDARDS

The internal standards retention times and area counts for the VOA fraction were all within the required QC limits: with the exception of 1,4-Dichlorobenzene in a lab blank, therefore for that lab blank all positive results are qualified "J" and no-detects are qualified "UJ".

9. COMPOUND IDENTIFICATION

Target compounds (TCLs) and Tentatively Identified Compounds (TICs) were identified using a "best fit" library search method.

10. COMPOUND QUANTITATION AND REPORTED DETECTION LIMITS

All target compound quantitation was properly reported.

11. SYSTEM PERFORMANCE

GC/MS baseline indicated acceptable performance.

12. ADDITIONAL INFORMATION

Method modifications which could adversely affect data quality:

Reviewed by: T Sedlacek Lockheed Martin/ESAT  
Date: January 21, 2000

NARRATIVE

Page 4 of 8

Laboratory: Air Toxics Ltd  
Site: Himco Dump (IN)

Case:  
SDG: 9910471

1. "Cartridges used for daily method blank may or may not be from the same batch or sampling media" as the analyzed samples.
2. "Sampling media provided by the client is batch certified ahead of time, only if client provides blank cartridges"

The lab failed to provide copies of the manual data manipulations preformed in this data set. The reviewer is unable to determine what effect those actions have on the overall quality of the data.

Reviewed by: T Sedlacek Lockheed Martin/ESAT  
Date: January 21, 2000

CALIBRATION OUTLIER FORM

| INSTRUMENT / MS / 11      | DATE TIME |    | Initial Calibration |       |     | Continuing Calibration |      |     | Continuing Calibration |      |   | Continuing Calibration |      |   |
|---------------------------|-----------|----|---------------------|-------|-----|------------------------|------|-----|------------------------|------|---|------------------------|------|---|
|                           | RF        | %D | RRF                 | %RSD  | Q   | RRF                    | %RSD | Q   | RRF                    | %RSD | Q | RRF                    | %RSD | Q |
| 1,1,1-Trichloroethane     |           | 15 |                     |       |     |                        |      |     |                        |      |   |                        |      |   |
| 1,1,2,2-Tetrachloroethane | 0.3       | 30 |                     |       |     |                        |      |     |                        |      |   |                        |      |   |
| 1,1,2-Trichloroethane     |           | 15 |                     |       |     |                        |      |     |                        |      |   |                        |      |   |
| 1,1-Dichloroethane        | 0.1       | 15 |                     |       |     |                        |      |     |                        |      |   |                        |      |   |
| 1,1-Dichloroethene        |           | 30 |                     |       |     |                        |      |     |                        |      |   |                        |      |   |
| 1,2,3-Trichloropropane    |           | 30 |                     |       |     |                        |      |     |                        |      |   |                        |      |   |
| 1,2-Dichloroethane        |           | 15 |                     |       |     |                        |      |     |                        |      |   |                        |      |   |
| 1,2-Dichloropropane       |           | 30 |                     |       |     |                        |      |     |                        |      |   |                        |      |   |
| Acetone                   |           | 30 | 0.077               |       |     | 0.052                  | 32.7 | 7/5 |                        |      |   |                        |      |   |
| Acrylonitrile             |           | 15 |                     |       |     |                        |      |     |                        |      |   |                        |      |   |
| Benzene                   |           | 15 | 1.144               | 15.47 | 7/5 |                        |      |     |                        |      |   |                        |      |   |
| Bromochloromethane        |           | 15 |                     |       |     |                        |      |     |                        |      |   |                        |      |   |
| Bromoform                 | 0.1       | 30 |                     |       |     |                        |      |     |                        |      |   |                        |      |   |
| Bromomethane              |           | 30 | 0.072               | 33.05 | 7/5 |                        |      |     |                        |      |   |                        |      |   |
| Carbon Disulfide          |           | 15 |                     |       |     |                        |      |     |                        |      |   |                        |      |   |
| Carbon Tetrachloride      |           | 15 |                     |       |     |                        |      |     |                        |      |   |                        |      |   |
| Chlorobenzene             | 0.3       | 15 |                     |       |     |                        |      |     |                        |      |   |                        |      |   |
| Chloroethane              |           | 15 |                     |       |     |                        |      |     |                        |      |   |                        |      |   |
| Chloroform                |           | 30 |                     |       |     |                        |      |     |                        |      |   |                        |      |   |
| Chloromethane             | 0.1       | 30 |                     |       |     |                        |      |     |                        |      |   |                        |      |   |
| cis-1,3-Dichloropropene   |           | 15 |                     |       |     |                        |      |     |                        |      |   |                        |      |   |
| Dibromochloromethane      |           | 15 |                     |       |     |                        |      |     |                        |      |   |                        |      |   |
| Dibromomethane            |           | 15 |                     |       |     |                        |      |     |                        |      |   |                        |      |   |
| Ethylbenzene              |           | 30 |                     |       |     |                        |      |     |                        |      |   |                        |      |   |
| Trichlorofluoromethane    |           | 15 |                     |       |     |                        |      |     |                        |      |   |                        |      |   |
| Iodoethane                |           | 15 | 0.223               | 36.42 | 7/5 |                        |      |     |                        |      |   |                        |      |   |
| m,p-Xylene                |           | 15 |                     |       |     |                        |      |     |                        |      |   |                        |      |   |
| Methylene Chloride        |           | 15 |                     |       |     |                        |      |     |                        |      |   |                        |      |   |
| o-Xylene                  |           | 15 |                     |       |     |                        |      |     |                        |      |   |                        |      |   |
| Styrene                   |           | 15 |                     |       |     |                        |      |     |                        |      |   |                        |      |   |
| Tetrachloroethene         |           | 15 |                     |       |     |                        |      |     |                        |      |   |                        |      |   |
| Toluene                   |           | 30 |                     |       |     |                        |      |     |                        |      |   |                        |      |   |
| trans-1,2-Dichloroethene  |           | 15 |                     |       |     |                        |      |     |                        |      |   |                        |      |   |
| trans-1,3-Dichloropropene |           | 10 |                     |       |     |                        |      |     |                        |      |   |                        |      |   |
| Trichloroethane           |           | 15 |                     |       |     |                        |      |     |                        |      |   |                        |      |   |
| Vinyl Chloride            |           | 30 |                     |       |     |                        |      |     |                        |      |   |                        |      |   |

Affected Samples

|         |  |
|---------|--|
| LAB ALL |  |
| 11206   |  |
| 11207   |  |
| 11316   |  |
| 11313   |  |
|         |  |
|         |  |
|         |  |

**CALIBRATION OUTLIERS  
VOLATILE TCL COMPOUNDS**

(Page 1 of 1)

CASE/SAS#: 09100171  
 COLUMN: \_\_\_\_\_  
 HEATED PURGE (Y/N): N

LABORATORY: Air Toxic Lab  
 SITE NAME: Home Depot

| Instrument#                | Date/Time: | Initial Cal. |      |       | Contn. Cal. |      |      | Contn. Cal. |    |    | Contn. Cal. |    |    |
|----------------------------|------------|--------------|------|-------|-------------|------|------|-------------|----|----|-------------|----|----|
|                            |            | #            | rf   | %rd   | #           | rf   | %d   | #           | rf | %d | #           | rf | %d |
| MSD4                       |            |              |      |       |             |      |      |             |    |    |             |    |    |
|                            |            |              |      |       |             |      |      |             |    |    |             |    |    |
| Chloromethane              |            | 0.01         |      |       |             |      |      |             |    |    |             |    |    |
| Bromomethane               |            | 0.10         | 0.71 | 32.05 | J           |      |      |             |    |    |             |    |    |
| Vinyl chloride             |            | 0.10         |      |       |             |      |      |             |    |    |             |    |    |
| Chloroethane               |            | 0.01         |      |       |             |      |      |             |    |    |             |    |    |
| Methylene chloride         |            | 0.01         |      |       |             |      |      |             |    |    |             |    |    |
| Acetone                    |            | 0.01         |      |       |             |      |      |             |    |    |             |    |    |
| Carbon disulfide           |            | 0.01         | 0.27 |       |             | 0.42 | 32.7 | J           |    |    |             |    |    |
| 1,1-Dichloroethene         |            | 0.10         |      |       |             |      |      |             |    |    |             |    |    |
| 1,1-Dichloroethane         |            | 0.20         |      |       |             |      |      |             |    |    |             |    |    |
| 1,2-Dichloroethene (total) |            |              |      |       |             |      |      |             |    |    |             |    |    |
| Chloroform                 |            | 0.20         |      |       |             |      |      |             |    |    |             |    |    |
| 1,2-Dichloroethane         |            | 0.10         |      |       |             |      |      |             |    |    |             |    |    |
| 2-Butanone                 |            | 0.01         |      |       |             |      |      |             |    |    |             |    |    |
| 1,1,1-Trichloroethane      |            | 0.10         |      |       |             |      |      |             |    |    |             |    |    |
| Carbon tetrachloride       |            | 0.10         |      |       |             |      |      |             |    |    |             |    |    |
| Bromodichloromethane       |            | 0.20         |      |       |             |      |      |             |    |    |             |    |    |
| 1,2-Dichloropropane        |            |              |      |       |             |      |      |             |    |    |             |    |    |
| cis-1,3-Dichloropropene    |            | 0.20         |      |       |             |      |      |             |    |    |             |    |    |
| Trichloroethene            |            | 0.30         |      |       |             |      |      |             |    |    |             |    |    |
| Dibromochloromethane       |            | 0.10         |      |       |             |      |      |             |    |    |             |    |    |
| 1,1,2-Trichloroethane      |            | 0.10         |      |       |             |      |      |             |    |    |             |    |    |
| Benzene                    |            | 0.50         | 1.14 | 15.42 | J           |      |      |             |    |    |             |    |    |
| tran-1,3-Dichloropropene   |            | 0.10         |      |       |             |      |      |             |    |    |             |    |    |
| Bromoform                  |            | 0.10         |      |       |             |      |      |             |    |    |             |    |    |
| 4-Methyl-2-pentanone       |            | 0.01         |      |       |             |      |      |             |    |    |             |    |    |
| 2-Hexanone                 |            | 0.01         |      |       |             |      |      |             |    |    |             |    |    |
| Tetrachloroethene          |            | 0.20         |      |       |             |      |      |             |    |    |             |    |    |
| 1,1,2,2-Tetrachloroethane  |            | 0.50         |      |       |             |      |      |             |    |    |             |    |    |
| Toluene                    |            | 0.40         |      |       |             |      |      |             |    |    |             |    |    |
| Chlorobenzene              |            | 0.50         |      |       |             |      |      |             |    |    |             |    |    |
| Ethylbenzene               |            | 0.10         |      |       |             |      |      |             |    |    |             |    |    |
| Styrene                    |            | 0.30         |      |       |             |      |      |             |    |    |             |    |    |
| Xylene (total)             |            | 0.30         |      |       |             |      |      |             |    |    |             |    |    |
| Toluene-d8                 |            |              |      |       |             |      |      |             |    |    |             |    |    |
| Bromofluorobenzene         |            | 0.20         |      |       |             |      |      |             |    |    |             |    |    |
| 1,2-Dichloroethane-d4      |            |              |      |       |             |      |      |             |    |    |             |    |    |
| Samples affected:          |            |              |      |       |             |      |      |             |    |    |             |    |    |
|                            |            |              |      |       |             |      |      |             |    |    |             |    |    |
|                            |            |              |      |       |             |      |      |             |    |    |             |    |    |
|                            |            |              |      |       |             |      |      |             |    |    |             |    |    |
|                            |            |              |      |       |             |      |      |             |    |    |             |    |    |
|                            |            |              |      |       |             |      |      |             |    |    |             |    |    |
|                            |            |              |      |       |             |      |      |             |    |    |             |    |    |
|                            |            |              |      |       |             |      |      |             |    |    |             |    |    |
|                            |            |              |      |       |             |      |      |             |    |    |             |    |    |

Reviewer's Init/Date: MS 11/21/2000

J/R = All positive results are estimated "J" and non-detected results are unusable "R"  
 \* = These flags should be applied to the analytes on the sample data sheets.  
 # = Minimum Relative Response Factor

**CALIBRATION OUTLIERS  
VOLATILE TCL COMPOUNDS**

(Page 1 of 1)

CASE/SAS#: 9910471  
 COLUMN: \_\_\_\_\_  
 HEATED PURGE (Y/N): N

LABORATORY: Air Toxics  
 SITE NAME: Home Depot

| Instrument#                | Date/Time: | Initial Cal. |     |       | Contin. Cal. |      |       | Contin. Cal. |    |    | Contin. Cal. |    |    |
|----------------------------|------------|--------------|-----|-------|--------------|------|-------|--------------|----|----|--------------|----|----|
|                            |            | #            | rf  | %rd   | #            | rf   | %d    | #            | rf | %d | #            | rf | %d |
| Chloromethane              |            | 0.01         | 307 | 34.9% |              |      |       |              |    |    |              |    |    |
| Bromomethane               |            | 0.10         |     |       |              |      |       |              |    |    |              |    |    |
| Vinyl chloride             |            | 0.10         |     |       |              |      |       |              |    |    |              |    |    |
| Chloroethane               |            | 0.01         |     |       |              |      |       |              |    |    |              |    |    |
| Methylene chloride         |            | 0.01         | 303 | 27.3% |              |      |       |              |    |    |              |    |    |
| Acetone                    |            | 0.01         | 204 |       | 0.01         | 28.1 | 1/4   |              |    |    |              |    |    |
| Carbon disulfide           |            | 0.01         |     |       |              |      |       |              |    |    |              |    |    |
| 1,1-Dichloroethene         |            | 0.10         |     |       |              |      |       |              |    |    |              |    |    |
| 1,1-Dichloroethane         |            | 0.20         |     |       |              |      |       |              |    |    |              |    |    |
| 1,2-Dichloroethene (total) |            |              |     |       |              |      |       |              |    |    |              |    |    |
| Chloroform                 |            | 0.20         |     |       |              |      |       |              |    |    |              |    |    |
| 1,2-Dichloroethane         |            | 0.10         |     |       |              |      |       |              |    |    |              |    |    |
| 2-Butanone                 |            | 0.01         |     |       |              |      |       |              |    |    |              |    |    |
| 1,1,1-Trichloroethane      |            | 0.10         |     |       |              |      |       |              |    |    |              |    |    |
| Carbon tetrachloride       |            | 0.10         |     |       |              |      |       |              |    |    |              |    |    |
| Bromodichloromethane       |            | 0.20         |     |       |              |      |       |              |    |    |              |    |    |
| 1,2-Dichloropropane        |            |              |     |       |              |      |       |              |    |    |              |    |    |
| cis-1,3-Dichloropropene    |            | 0.20         |     |       |              |      |       |              |    |    |              |    |    |
| Trichloroethene            |            | 0.30         |     |       |              |      |       |              |    |    |              |    |    |
| Dibromochloromethane       |            | 0.10         |     |       |              |      |       |              |    |    |              |    |    |
| 1,1,2-Trichloroethane      |            | 0.10         |     |       |              |      |       |              |    |    |              |    |    |
| Benzene                    |            | 0.50         |     |       |              |      |       |              |    |    |              |    |    |
| trans-1,3-Dichloropropene  |            | 0.10         |     |       |              |      |       |              |    |    |              |    |    |
| Bromoform                  |            | 0.10         |     |       |              |      |       |              |    |    |              |    |    |
| 4-Methyl-2-pentanone       |            | 0.01         | 215 | 32.5% |              |      |       |              |    |    |              |    |    |
| 2-Hexanone                 |            | 0.01         | 243 | 34.1% | 0.01         | 25.1 | 34.9% |              |    |    |              |    |    |
| Tetrachloroethene          |            | 0.20         |     |       |              |      |       |              |    |    |              |    |    |
| 1,1,2,2-Tetrachloroethane  |            | 0.50         |     |       |              |      |       |              |    |    |              |    |    |
| Toluene                    |            | 0.40         |     |       |              |      |       |              |    |    |              |    |    |
| Chlorobenzene              |            | 0.50         |     |       |              |      |       |              |    |    |              |    |    |
| Ethylbenzene               |            | 0.10         |     |       |              |      |       |              |    |    |              |    |    |
| Styrene                    |            | 0.30         | 97  | 16.4% |              |      |       |              |    |    |              |    |    |
| Xylene (total)             |            | 0.30         |     |       |              |      |       |              |    |    |              |    |    |
| Toluene-d8                 |            |              |     |       |              |      |       |              |    |    |              |    |    |
| Bromofluorobenzene         |            | 0.20         |     |       |              |      |       |              |    |    |              |    |    |
| 1,2-Dichloroethane-d4      |            |              |     |       |              |      |       |              |    |    |              |    |    |
| Samples affected:          |            |              |     |       |              |      |       |              |    |    |              |    |    |
|                            |            |              |     |       |              |      |       |              |    |    |              |    |    |
|                            |            |              |     |       |              |      |       |              |    |    |              |    |    |
|                            |            |              |     |       |              |      |       |              |    |    |              |    |    |
|                            |            |              |     |       |              |      |       |              |    |    |              |    |    |
|                            |            |              |     |       |              |      |       |              |    |    |              |    |    |
|                            |            |              |     |       |              |      |       |              |    |    |              |    |    |

Reviewer's Init/Date: JM 4/21/04

J/R = All positive results are estimated "J" and non-detected results are unusable "R"

- = These flags should be applied to the analytes on the sample data sheets.
- # = Minimum Relative Response Factor

CALIBRATION OUTLIER FORM

| INSTRUMENT #502           |      |      | Initial Calibration |        |     | Continuing Calibration |      |     | Continuing Calibration |      |   | Continuing Calibration |      |   |
|---------------------------|------|------|---------------------|--------|-----|------------------------|------|-----|------------------------|------|---|------------------------|------|---|
|                           | DATE | TIME | RRF                 | %RSD   | Q   | RRF                    | %RSD | Q   | RRF                    | %RSD | Q | RRF                    | %RSD | Q |
|                           |      |      |                     |        |     |                        |      |     |                        |      |   |                        |      |   |
| 1,1,1-Trichloroethane     |      | 15   |                     |        |     |                        |      |     |                        |      |   |                        |      |   |
| 1,1,2,2-Tetrachloroethane | 0.3  | 30   |                     |        |     |                        |      |     |                        |      |   |                        |      |   |
| 1,1,2-Trichloroethane     |      | 15   |                     |        |     |                        |      |     |                        |      |   |                        |      |   |
| 1,1-Dichloroethane        | 0.1  | 15   |                     |        |     |                        |      |     |                        |      |   |                        |      |   |
| 1,1-Dichloroethene        |      | 30   |                     |        |     |                        |      |     |                        |      |   |                        |      |   |
| 1,2,3-Trichloropropane    |      | 30   |                     |        |     |                        |      |     |                        |      |   |                        |      |   |
| 1,2-Dichloroethane        |      | 15   |                     |        |     |                        |      |     |                        |      |   |                        |      |   |
| 1,2-Dichloropropane       |      | 30   |                     |        |     |                        |      |     |                        |      |   |                        |      |   |
| Acetone                   |      | 30   | 0.014               |        |     | 0.014                  | 28.1 | J/L |                        |      |   |                        |      |   |
| Acrylonitrile             |      | 15   |                     |        |     |                        |      |     |                        |      |   |                        |      |   |
| Benzene                   |      | 15   | 1.199               | 15.476 | J/L |                        |      |     |                        |      |   |                        |      |   |
| Bromodichloromethane      |      | 15   |                     |        |     |                        |      |     |                        |      |   |                        |      |   |
| Bromoform                 | 0.1  | 30   |                     |        |     |                        |      |     |                        |      |   |                        |      |   |
| Bromomethane              |      | 30   |                     |        |     |                        |      |     |                        |      |   |                        |      |   |
| Carbon Disulfide          |      | 15   |                     |        |     |                        |      |     |                        |      |   |                        |      |   |
| Carbon Tetrachloride      |      | 15   |                     |        |     |                        |      |     |                        |      |   |                        |      |   |
| Chlorobenzene             | 0.3  | 15   |                     |        |     |                        |      |     |                        |      |   |                        |      |   |
| Chloroethane              |      | 15   |                     |        |     |                        |      |     |                        |      |   |                        |      |   |
| Chloroform                |      | 30   |                     |        |     |                        |      |     |                        |      |   |                        |      |   |
| Chloromethane             | 0.1  | 30   | 0.367               | 34.624 | J/L |                        |      |     |                        |      |   |                        |      |   |
| cis-1,3-Dichloropropene   |      | 15   |                     |        |     |                        |      |     |                        |      |   |                        |      |   |
| Dibromochloromethane      |      | 15   |                     |        |     |                        |      |     |                        |      |   |                        |      |   |
| Dibromomethane            |      | 15   |                     |        |     |                        |      |     |                        |      |   |                        |      |   |
| Ethylbenzene              |      | 30   |                     |        |     |                        |      |     |                        |      |   |                        |      |   |
| Trichlorofluoromethane    |      | 15   |                     |        |     |                        |      |     |                        |      |   |                        |      |   |
| Iodomethane               |      | 15   | 0.254               | 15.228 | J/L |                        |      |     |                        |      |   |                        |      |   |
| m,p-Xylene                |      | 15   |                     |        |     |                        |      |     |                        |      |   |                        |      |   |
| Methylene Chloride        |      | 15   | 0.703               | 27.026 | J/L |                        |      |     |                        |      |   |                        |      |   |
| o-Xylene                  |      | 15   |                     |        |     |                        |      |     |                        |      |   |                        |      |   |
| Styrene                   |      | 15   | 0.477               | 16.44  | J/L |                        |      |     |                        |      |   |                        |      |   |
| Tetrachloroethene         |      | 15   |                     |        |     |                        |      |     |                        |      |   |                        |      |   |
| Toluene                   |      | 30   |                     |        |     |                        |      |     |                        |      |   |                        |      |   |
| trans-1,2-Dichloroethene  |      | 15   |                     |        |     |                        |      |     |                        |      |   |                        |      |   |
| trans-1,3-Dichloropropene |      | 10   |                     |        |     |                        |      |     |                        |      |   |                        |      |   |
| Trichloroethane           |      | 15   |                     |        |     |                        |      |     |                        |      |   |                        |      |   |
| Vinyl Chloride            |      | 30   |                     |        |     |                        |      |     |                        |      |   |                        |      |   |

Affected Samples

|  |         |  |  |
|--|---------|--|--|
|  | Lab BUL |  |  |
|  | 11311   |  |  |
|  | 11315   |  |  |
|  | 11317   |  |  |
|  | 11309   |  |  |
|  |         |  |  |
|  |         |  |  |

Lockheed Martin Services Group  
Environmental Services & Technologies Region 5  
536 South Clark Street #1050 Chicago, IL 60605  
Telephone 312-353-8302 Facsimile 312-353-8307



Date: March 9, 2000

To: Richard Byvik, EPA WAM

From: W. Ira Wilson, ESAT Chemist

Thru: Ziyad Rajabi, ESAT Team Manager

Copies: W. Ira Wilson, ESAT Organic Group Leader  
Jay Thakkar, ESAT Contract RPO

Ref: TDF# 5207-982  
WA# 05-00-4-07  
Contract # 68D60002

SUBJECT: Organic Data Review of PRP Case; SDG # 9910332 . Volatile Analyses of  
VOST Cartridges, using SW846 Method 041/8260B .

Attached is the deliverable for PRP data case; SDG # 9910332. Volatile Analysis of 8 VOST Cartridges, using SW846 Method 041/8260B. Included in the deliverable is the Manual case narrative. If you have any question please feel free to contact Ira Wilson.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION V

DATE: March 9, 2000  
SUBJECT: Review of Data  
Received for Review on February 28, 2000  
FROM: Stephen L. Ostrodka, Chief (SRT-4J)  
Superfund Technical Support Section  
TO: Data User: PRP

*- per Stephen Ostrodka  
Richard L. Byrd  
3/17/00*

We have reviewed the data for the following case:

SITE NAME: HIMCO DUMP

CASE NUMBER: N/A SDG NUMBER: 9910332

Number and Type of Samples: Eight (8) VOST Cartgidges

Sample Numbers: 11011, 11024, 11016, 11109, 11023, 11017, 11013 and 11110

Laboratory: Compuchem Hrs. for Review: 15

Following are our findings:

*The data are usable and acceptable with the qualifications described in the attached narrative.  
Richard L. Byrd*

CC: Cecilia L. Moore  
Region 5 TPO  
Mail Code: SM-5J

NARRATIVE

Page 4 of 5

Laboratory: Air Toxics Ltd  
Site: Himco Dump (IN)

Case:  
SDG: 9910332

Below is a summary of the out-of-control audits and possible effects on the data for this Case/SDG:

Eight VOST Cartridges, numbered 11011, 11024, 11016, 11109, 11023, 11017, 11013, and 11110, were collected on October 22, 1999. The lab received the samples on October 23, 1999 in good condition. All samples were analyzed for volatile organic analytes. All were analyzed according to modified SW846 8260.

The VOST analyses were performed within the technical holding times of 14 days after sample collection; therefore the results are acceptable.

Reviewed by: W. Ira Wilson Lockheed Martin/ESAT  
Date: March 9, 2000

## NARRATIVE

Page 4 of 5

Laboratory: Air Toxics Ltd  
Site: Himco Dump (IN)

Case:  
SDG: 9910332

### 1. HOLDING TIME

Eight VOST Cartridges, numbered 11011, 11024, 11016, 11109, 11023, 11017, 11013, and 11110, were collected on October 22, 1999. The lab received the samples on October 23, 1999 in good condition. All samples were analyzed for volatile organic analytes. All were analyzed according to modified SW846 8260.

The VOST analyses were performed within the technical holding times of 14 days after sample collection; therefore the results are acceptable.

### 2. GC/MS TUNING AND GC INSTRUMENT PERFORMANCE

All GC/MS tuning complied with mass list and ion abundance criteria for BFB, and all samples were analyzed within the twelve (12) hour periods for instrument performance checks.

### 3. CALIBRATION

Initial and continuing calibrations of the Volatile, standards were evaluated for target compound list and outliers are recorded on the forms included as part of this narrative.

### 4. BLANKS

The lab ran a Method Blank for the VOST cartridges analyzed. The Blank was labeled as "Lab Blank". The blank did not report any detectable TCLs or TICs. Therefore, the Method Blank results are acceptable.

### 5. SYSTEM MONITORING COMPOUND AND SURROGATE RECOVERY

The volatile system monitoring compounds were within QC required limits for recovery and retention time. Therefore, the results are acceptable.

### 6. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Due to the nature of the VOST cartridge matrix it is impossible to perform spiking on the samples. The method requires a batch certification of the VOST cartridges prior to

Reviewed by: W. Ira Wilson Lockheed Martin/ESAT  
Date: March 9, 2000

NARRATIVE

Page 4 of 5

Laboratory: Air Toxics Ltd  
Site: Himco Dump (IN)

Case:  
SDG: 9910332

use. The lab did not provide evidence that the pre-certification was performed. However, the lab performed an analysis on a LCS sample and all spiked analytes were within the QC limits.

7. FIELD BLANK AND FIELD DUPLICATE

The samples did not provide a field blank with this SDG. Due the collection method a field duplicate can not be collected

8. INTERNAL STANDARDS

The internal standards retention times and area counts for the VOA fraction were all within the required QC limits. Therefore, the results are acceptable.

9. COMPOUND IDENTIFICATION

Target compounds (TCLs) and Tentatively Identified Compounds (TICs) were identified using a "best fit" library search method.

10. COMPOUND QUANTITATION AND REPORTED DETECTION LIMITS

All target compound quantitation for total ng were properly reported.

11. SYSTEM PERFORMANCE

GC/MS baseline indicated acceptable performance.

12. ADDITIONAL INFORMATION

The lab failed to provide copies of the manual data manipulations performed in this data set. The reviewer is unable to determine what effect those actions have on the overall quality of the data.

CALIBRATION OUTLIERS  
VOLATILE TCL COMPOUNDS

(Page 1 of 1)

CASE/SAS#: 9910 332  
COLUMN: KTX-624  
HEATED PURGE (Y/N): \_\_\_\_\_

LABORATORY: AIR TOXICS L  
SITE NAME: HUMCO DUM

| Instrument# <u>MSD 4.2</u> | Initial Cal. |      |       | Contin. Cal. |        |       | Contin. Cal. |   |    | Contin. Cal. |   |    |    |
|----------------------------|--------------|------|-------|--------------|--------|-------|--------------|---|----|--------------|---|----|----|
|                            | Date/Time:   | #    | rf    | %rd          | #      | rf    | %d           | # | rf | %d           | # | rf | %d |
| Chloromethane              |              | 0.01 |       |              |        |       |              |   |    |              |   |    |    |
| Bromomethane               |              | 0.10 | 0.129 |              | 0.1053 | 58.7  | J            |   |    |              |   |    |    |
| Vinyl chloride             |              | 0.10 |       |              |        |       |              |   |    |              |   |    |    |
| Chloroethane               |              | 0.01 | 0.083 |              | 0.119  | 43.3  | J            |   |    |              |   |    |    |
| Methylene chloride         |              | 0.01 |       |              |        |       |              |   |    |              |   |    |    |
| Acetone                    |              | 0.01 |       |              |        |       |              |   |    |              |   |    |    |
| Carbon disulfide           |              | 0.01 |       |              |        |       |              |   |    |              |   |    |    |
| 1,1-Dichloroethene         |              | 0.10 |       |              |        |       |              |   |    |              |   |    |    |
| 1,1-Dichloroethane         |              | 0.20 |       |              |        |       |              |   |    |              |   |    |    |
| 1,2-Dichloroethene (total) |              |      | 2.35  | 30.3         | J      |       |              |   |    |              |   |    |    |
| Chloroform                 |              | 0.20 |       |              |        |       |              |   |    |              |   |    |    |
| 1,2-Dichloroethane         |              | 0.10 |       |              |        |       |              |   |    |              |   |    |    |
| 2-Butanone                 |              | 0.01 |       |              |        |       |              |   |    |              |   |    |    |
| 1,1,1-Trichloroethane      |              | 0.10 |       |              |        |       |              |   |    |              |   |    |    |
| Carbon tetrachloride       |              | 0.10 |       |              |        |       |              |   |    |              |   |    |    |
| Bromodichloromethane       |              | 0.20 |       |              |        |       |              |   |    |              |   |    |    |
| 1,2-Dichloropropane        |              |      |       |              |        |       |              |   |    |              |   |    |    |
| cis-1,3-Dichloropropene    |              | 0.20 |       |              |        |       |              |   |    |              |   |    |    |
| Trichloroethene            |              | 0.30 |       |              |        |       |              |   |    |              |   |    |    |
| Dibromochloromethane       |              | 0.10 |       |              |        |       |              |   |    |              |   |    |    |
| 1,1,2-Trichloroethane      |              | 0.10 |       |              |        |       |              |   |    |              |   |    |    |
| Benzene                    |              | 0.50 | 7.89  | 83.35        | J      |       |              |   |    |              |   |    |    |
| tran-1,3-Dichloropropene   |              | 0.10 |       |              |        |       |              |   |    |              |   |    |    |
| Bromoform                  |              | 0.10 |       |              |        |       |              |   |    |              |   |    |    |
| 4-Methyl-2-pentanone       |              | 0.01 |       |              |        |       |              |   |    |              |   |    |    |
| 2-Hexanone                 |              | 0.01 |       |              |        |       |              |   |    |              |   |    |    |
| Tetrachloroethene          |              | 0.20 |       |              |        |       |              |   |    |              |   |    |    |
| 1,1,2,2-Tetrachloroethane  |              | 0.50 |       |              |        |       |              |   |    |              |   |    |    |
| Toluene                    |              | 0.40 |       |              |        |       |              |   |    |              |   |    |    |
| Chlorobenzene              |              | 0.50 |       |              |        |       |              |   |    |              |   |    |    |
| Ethylbenzene               |              | 0.10 |       |              |        |       |              |   |    |              |   |    |    |
| Styrene                    |              | 0.30 |       |              |        |       |              |   |    |              |   |    |    |
| Xylene (total)             |              | 0.30 |       |              |        |       |              |   |    |              |   |    |    |
| Toluene-d8                 |              |      |       |              |        |       |              |   |    |              |   |    |    |
| Bromofluorobenzene         |              | 0.20 |       |              |        |       |              |   |    |              |   |    |    |
| 1,2-Dichloroethane-d4      |              |      |       |              |        |       |              |   |    |              |   |    |    |
| Samples affected:          |              |      |       |              | 11011  | a, b  |              |   |    |              |   |    |    |
|                            |              |      |       |              | 11024  | a, b  |              |   |    |              |   |    |    |
|                            |              |      |       |              | 11016  | a, b  |              |   |    |              |   |    |    |
|                            |              |      |       |              | 11109  | a, b  |              |   |    |              |   |    |    |
|                            |              |      |       |              | 11023  | a, b  |              |   |    |              |   |    |    |
|                            |              |      |       |              | 11017  | a, b  |              |   |    |              |   |    |    |
|                            |              |      |       |              | 11013  | a, b  |              |   |    |              |   |    |    |
|                            |              |      |       |              | 11010  | a, b  |              |   |    |              |   |    |    |
|                            |              |      |       |              | Lab    | BLANK |              |   |    |              |   |    |    |

Reviewer's Init/Date: WJH  
3-3-2000

J/R = All positive results are estimated "J" and non-detected results are unusable "R"

- \* = These flags should be applied to the analytes on the sample data sheets.
- # = Minimum Relative Response Factor

## ORGANIC DATA QUALIFIER DEFINITIONS

For the purpose of defining the flagging nomenclature used in this document, the following code letters and associated definitions are provided:

VALUE - when/if the result of a value is greater than or equal to the Contract Required Quantitation Limit (CRQL).

- U Indicates that the compound was analyzed for, but not detected. The sample quantitation limit corrected for dilution and percent moisture is reported.
- J Indicates an estimated value. This flag is used either when estimating a concentration for a tentatively identified compound or when the data indicates the presence of a compound where the result is less than the sample quantitation limit, but greater than zero. The flag is also used to indicate a reported result having an associated QC problem.
- R Indicates the data are unusable. (NOTE: The analyte may or may not be present.)
- N Indicates presumptive evidence of a compound. This flag is only used for a tentatively identified compound, where the identification is based on a mass spectral library search.
- P Indicates a pesticide/Aroclor target analyte when there is greater than 25% difference for the detected concentrations between the two GC columns. The lower of the two results is reported.
- C Indicates pesticide results that have been confirmed by GC/MS.
- B Indicates the analyte is detected in the associated blank as well as in the sample.
- E Indicates compounds whose concentrations exceed the calibration range of the instrument.
- D Indicates an identified compound in an analysis has been diluted. This flag alerts the data user to any differences between the concentrations reported in the two analysis.
- A Indicates tentatively identified compounds that are suspected to be aldol condensation products.
- G Indicates the TCLP Matrix Spike Recovery was greater than the upper limit of the analytical method.
- L Indicates the TCLP Matrix Spike Recovery was less than the lower limit of the analytical method.
- T Indicates the analyte is found in the associated TCLP extraction blank as well as in the sample.

X,Y,Z are reserved for laboratory defined flags.

# AIR TOXICS LTD.

SAMPLE NAME : 11009A

ID#: 9910301-03A

Modified VOST 5041A GC/MS Full Scan

|              |         |                              |
|--------------|---------|------------------------------|
| File Name:   | h110206 | Date of Collection: 10/20/99 |
| Dil. Factor: | 1.00    | Date of Analysis: 11/2/99    |

| Compound                         | Det. Limit (nG) | Amount (nG)  |
|----------------------------------|-----------------|--------------|
| Chloromethane                    | 10              | Not Detected |
| Vinyl Chloride                   | 10              | Not Detected |
| Bromomethane                     | 10              | Not Detected |
| Chloroethane                     | 10              | Not Detected |
| Freon 11                         | 10              | Not Detected |
| 1,1-Dichloroethene               | 10              | Not Detected |
| Carbon Disulfide                 | 10              | 23           |
| Acetone                          | 50              | Not Detected |
| Methylene Chloride               | 10              | Not Detected |
| trans-1,2-Dichloroethene         | 10              | Not Detected |
| 1,1-Dichloroethane               | 10              | Not Detected |
| Vinyl Acetate                    | 50              | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 50              | Not Detected |
| Chloroform                       | 10              | Not Detected |
| 1,1,1-Trichloroethane            | 10              | Not Detected |
| Carbon Tetrachloride             | 10              | Not Detected |
| Benzene                          | 10              | Not Detected |
| 1,2-Dichloroethane               | 10              | Not Detected |
| Trichloroethene                  | 10              | Not Detected |
| 1,2-Dichloropropane              | 10              | Not Detected |
| Bromodichloromethane             | 10              | Not Detected |
| trans-1,3-Dichloropropene        | 10              | Not Detected |
| 4-Methyl-2-pentanone             | 50              | Not Detected |
| Toluene                          | 10              | 12           |
| cis-1,3-Dichloropropene          | 10              | Not Detected |
| 1,1,2-Trichloroethane            | 10              | Not Detected |
| Tetrachloroethene                | 10              | Not Detected |
| 2-Hexanone                       | 50              | Not Detected |
| Dibromochloromethane             | 10              | Not Detected |
| Chlorobenzene                    | 10              | Not Detected |
| Ethyl Benzene                    | 10              | Not Detected |
| m,p-Xylene                       | 10              | Not Detected |
| o-Xylene                         | 10              | Not Detected |
| Styrene                          | 10              | Not Detected |
| Bromoform                        | 10              | Not Detected |
| 1,1,2,2-Tetrachloroethane        | 10              | Not Detected |
| 1,3-Dichlorobenzene              | 10              | Not Detected |
| 1,4-Dichlorobenzene              | 10              | Not Detected |
| 1,2-Dichlorobenzene              | 10              | Not Detected |
| cis-1,2-Dichloroethene           | 10              | Not Detected |

### TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported

| Compound        | CAS Number | Match Quality | Amount (nG) |
|-----------------|------------|---------------|-------------|
| None Identified |            |               |             |

**AIR TOXICS LTD.**

SAMPLE NAME : 11009A

ID#: 9910301-03A

Modified VOST 5041A GC/MS Full Scan

|              |         |                     |          |
|--------------|---------|---------------------|----------|
| File Name:   | h110206 | Date of Collection: | 10/20/99 |
| Dil. Factor: | 1.00    | Date of Analysis:   | 11/2/99  |

## TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported

| Compound | CAS Number | Match Quality | Amount (nG) |
|----------|------------|---------------|-------------|
|----------|------------|---------------|-------------|

Container Type: VOST Tube

| Surrogates            | % Recovery | Method Limits |
|-----------------------|------------|---------------|
| Dibromofluoromethane  | 93         | 72-135        |
| 1,2-Dichloroethane-d4 | 80         | 69-137        |
| Toluene-d8            | 97         | 77-124        |
| 4-Bromofluorobenzene  | 103        | 70-133        |

**AIR TOXICS LTD.**

SAMPLE NAME : 11021A/11009B

ID#: 9910301-07A/03B

Modified VOST 5041A GC/MS Full Scan

|                     |         |                                     |
|---------------------|---------|-------------------------------------|
| <b>File Name:</b>   | h102915 | <b>Date of Collection:</b> 10/20/99 |
| <b>Dil. Factor:</b> | 1.00    | <b>Date of Analysis:</b> 10/29/99   |

| Compound                         | Det. Limit (nG) | Amount (nG)  |
|----------------------------------|-----------------|--------------|
| Chloromethane                    | 10              | Not Detected |
| Vinyl Chloride                   | 10              | Not Detected |
| Bromomethane                     | 10              | Not Detected |
| Chloroethane                     | 10              | Not Detected |
| Freon 11                         | 10              | 80           |
| 1,1-Dichloroethene               | 10              | Not Detected |
| Carbon Disulfide                 | 10              | 15           |
| Acetone                          | 50              | 69           |
| Methylene Chloride               | 10              | Not Detected |
| trans-1,2-Dichloroethene         | 10              | Not Detected |
| 1,1-Dichloroethane               | 10              | Not Detected |
| Vinyl Acetate                    | 50              | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 50              | Not Detected |
| Chloroform                       | 10              | Not Detected |
| 1,1,1-Trichloroethane            | 10              | 12           |
| Carbon Tetrachloride             | 10              | Not Detected |
| Benzene                          | 10              | Not Detected |
| 1,2-Dichloroethane               | 10              | Not Detected |
| Trichloroethene                  | 10              | Not Detected |
| 1,2-Dichloropropane              | 10              | Not Detected |
| Bromodichloromethane             | 10              | Not Detected |
| trans-1,3-Dichloropropene        | 10              | Not Detected |
| 4-Methyl-2-pentanone             | 50              | Not Detected |
| Toluene                          | 10              | Not Detected |
| cis-1,3-Dichloropropene          | 10              | Not Detected |
| 1,1,2-Trichloroethane            | 10              | Not Detected |
| Tetrachloroethene                | 10              | 1600 E       |
| 2-Hexanone                       | 50              | Not Detected |
| Dibromochloromethane             | 10              | Not Detected |
| Chlorobenzene                    | 10              | Not Detected |
| Ethyl Benzene                    | 10              | Not Detected |
| m,p-Xylene                       | 10              | Not Detected |
| o-Xylene                         | 10              | Not Detected |
| Styrene                          | 10              | Not Detected |
| Bromoform                        | 10              | Not Detected |
| 1,1,2,2-Tetrachloroethane        | 10              | Not Detected |
| 1,3-Dichlorobenzene              | 10              | Not Detected |
| 1,4-Dichlorobenzene              | 10              | Not Detected |
| 1,2-Dichlorobenzene              | 10              | Not Detected |
| cis-1,2-Dichloroethene           | 10              | Not Detected |

**TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported**

| Compound                                 | CAS Number | Match Quality | Amount (nG) |
|--|------------|---------------|-------------|
| Methane, dichlorodifluoro-               | 75-71-8    | 83 %          | 49          |
| Ethane, 1,2-dichloro-1,1,2,2-tetrafluoro | 76-14-2    | 90 %          | 55          |

000152

**AIR TOXICS LTD.**

SAMPLE NAME : 11021A/11009B

ID#: 9910301-07A/03B

Modified VOST 5041A GC/MS Full Scan

|                     |                |                            |                 |
|---------------------|----------------|----------------------------|-----------------|
| <b>File Name:</b>   | <b>h102915</b> | <b>Date of Collection:</b> | <b>10/20/99</b> |
| <b>Dil. Factor:</b> | <b>1.00</b>    | <b>Date of Analysis:</b>   | <b>10/29/99</b> |

| TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported |            |               |             |
|--|------------|---------------|-------------|
| Compound   | CAS Number | Match Quality | Amount (ng) |
| Pentanal   | 110-62-3   | 80 %          | 34          |
| Hexanal  | 66-25-1    | 87 %          | 47          |
| Heptanal   | 111-71-7   | 38 %          | 45          |
| Octanal  | 124-13-0   | 90 %          | 140         |
| Nonanal  | 124-19-6   | 83 %          | 160         |

E = Exceeds instrument calibration range.

Container Type: VOST Tube

| Surrogates            | % Recovery | Method Limits |
|-----------------------|------------|---------------|
| Dibromofluoromethane  | 98         | 72-135        |
| 1,2-Dichloroethane-d4 | 94         | 69-137        |
| Toluene-d8            | 94         | 77-124        |
| 4-Bromofluorobenzene  | 105        | 70-133        |

000013

**AIR TOXICS LTD.**

SAMPLE NAME : 11014 a&amp;b

ID#: 9910316-02A/B

Modified VOST 5041A GC/MS Full Scan

|              |         |                     |          |
|--------------|---------|---------------------|----------|
| File Name:   | h110212 | Date of Collection: | 10/21/99 |
| Dil. Factor: | 1.00    | Date of Analysis:   | 11/2/99  |

| Compound                         | Det. Limit<br>(nG) | Det. Limit<br>(uG/m3) | Amount<br>(nG) | Amount<br>(uG/m3) |
|----------------------------------|--------------------|-----------------------|----------------|-------------------|
| Chloromethane                    | 10                 | 21                    | Not Detected   | Not Detected      |
| Vinyl Chloride                   | 10                 | 26                    | Not Detected   | Not Detected      |
| Bromomethane                     | 10                 | 39                    | Not Detected   | Not Detected      |
| Chloroethane                     | 10                 | 27                    | Not Detected   | Not Detected      |
| Freon 11                         | 10                 | 57                    | 19             | 110               |
| 1,1-Dichloroethene               | 10                 | 40                    | Not Detected   | Not Detected      |
| Carbon Disulfide                 | 10                 | 32                    | 16             | 52                |
| Acetone                          | 50                 | 120                   | Not Detected   | Not Detected      |
| Methylene Chloride               | 10                 | 35                    | Not Detected   | Not Detected      |
| trans-1,2-Dichloroethene         | 10                 | 40                    | Not Detected   | Not Detected      |
| 1,1-Dichloroethane               | 10                 | 41                    | Not Detected   | Not Detected      |
| Vinyl Acetate                    | 50                 | 180                   | Not Detected   | Not Detected      |
| 2-Butanone (Methyl Ethyl Ketone) | 50                 | 150                   | Not Detected   | Not Detected      |
| Chloroform                       | 10                 | 50                    | Not Detected   | Not Detected      |
| 1,1,1-Trichloroethane            | 10                 | 55                    | Not Detected   | Not Detected      |
| Carbon Tetrachloride             | 10                 | 64                    | Not Detected   | Not Detected      |
| Benzene                          | 10                 | 32                    | Not Detected   | Not Detected      |
| 1,2-Dichloroethane               | 10                 | 41                    | Not Detected   | Not Detected      |
| Trichloroethene                  | 10                 | 55                    | Not Detected   | Not Detected      |
| 1,2-Dichloropropane              | 10                 | 47                    | Not Detected   | Not Detected      |
| Bromodichloromethane             | 10                 | 68                    | Not Detected   | Not Detected      |
| trans-1,3-Dichloropropene        | 10                 | 46                    | Not Detected   | Not Detected      |
| 4-Methyl-2-pentanone             | 50                 | 210                   | Not Detected   | Not Detected      |
| Toluene                          | 10                 | 38                    | Not Detected   | Not Detected      |
| cis-1,3-Dichloropropene          | 10                 | 46                    | Not Detected   | Not Detected      |
| 1,1,2-Trichloroethane            | 10                 | 55                    | Not Detected   | Not Detected      |
| Tetrachloroethene                | 10                 | 69                    | Not Detected   | Not Detected      |
| 2-Hexanone                       | 50                 | 210                   | Not Detected   | Not Detected      |
| Dibromochloromethane             | 10                 | 86                    | Not Detected   | Not Detected      |
| Chlorobenzene                    | 10                 | 47                    | Not Detected   | Not Detected      |
| Ethyl Benzene                    | 10                 | 44                    | Not Detected   | Not Detected      |
| m,p-Xylene                       | 10                 | 44                    | Not Detected   | Not Detected      |
| o-Xylene                         | 10                 | 44                    | Not Detected   | Not Detected      |
| Styrene                          | 10                 | 43                    | Not Detected   | Not Detected      |
| Bromoform                        | 10                 | 100                   | Not Detected   | Not Detected      |
| 1,1,2,2-Tetrachloroethane        | 10                 | 70                    | Not Detected   | Not Detected      |
| 1,3-Dichlorobenzene              | 10                 | 61                    | Not Detected   | Not Detected      |
| 1,4-Dichlorobenzene              | 10                 | 61                    | Not Detected   | Not Detected      |
| 1,2-Dichlorobenzene              | 10                 | 61                    | Not Detected   | Not Detected      |
| cis-1,2-Dichloroethene           | 10                 | 40                    | Not Detected   | Not Detected      |

**AIR TOXICS LTD.**

SAMPLE NAME : 11014 a&amp;b

ID#: 9910316-02A/B

Modified VOST 5041A GC/MS Full Scan

|              |         |                     |          |
|--------------|---------|---------------------|----------|
| File Name:   | h110212 | Date of Collection: | 10/21/99 |
| Dil. Factor: | 1.00    | Date of Analysis:   | 11/2/99  |

**TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported**

| Compound                   | CAS Number | Match Quality | Amount (nG) |
|----------------------------|------------|---------------|-------------|
| Methane, dichlorodifluoro- | 75-71-8    | 83 %          | 27          |
| .alpha.-Pinene             | 80-56-8    | 95 %          | 440         |
| Camphene                   | 79-92-5    | 83 %          | 760         |
| .beta.-Pinene              | 127-91-3   | 91 %          | 240         |
| Octanal                    | 124-13-0   | 90 %          | 33          |
| Limonene                   | 138-86-3   | 91 %          | 25          |
| Nonanal                    | 124-19-6   | 83 %          | 36          |

Container Type: VOST Tube

| Surrogates            | % Recovery | Method Limits |
|-----------------------|------------|---------------|
| Dibromofluoromethane  | 91         | 72-135        |
| 1,2-Dichloroethane-d4 | 81         | 69-137        |
| Toluene-d8            | 101        | 77-124        |
| 4-Bromofluorobenzene  | 98         | 70-133        |

**AIR TOXICS LTD.**

SAMPLE NAME : 11003A/B

ID#: 9910301-05A/B

Modified VOST 5041A GC/MS Full Scan

|                     |         |                            |          |
|---------------------|---------|----------------------------|----------|
| <b>File Name:</b>   | h102917 | <b>Date of Collection:</b> | 10/20/99 |
| <b>Dil. Factor:</b> | 1.00    | <b>Date of Analysis:</b>   | 10/29/99 |

| Compound                         | Det. Limit (nG) | Amount (nG)  |
|----------------------------------|-----------------|--------------|
| Chloromethane                    | 10              | Not Detected |
| Vinyl Chloride                   | 10              | 250000 S     |
| Bromomethane                     | 10              | 110          |
| Chloroethane                     | 10              | 6500 E       |
| Freon 11                         | 10              | 4600 E       |
| 1,1-Dichloroethene               | 10              | 23000 E      |
| Carbon Disulfide                 | 10              | 230000 E     |
| Acetone                          | 50              | Not Detected |
| Methylene Chloride               | 10              | Not Detected |
| trans-1,2-Dichloroethene         | 10              | Not Detected |
| 1,1-Dichloroethane               | 10              | 18000 E      |
| Vinyl Acetate                    | 50              | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 50              | Not Detected |
| Chloroform                       | 10              | 1400 E       |
| 1,1,1-Trichloroethane            | 10              | Not Detected |
| Carbon Tetrachloride             | 10              | Not Detected |
| Benzene                          | 10              | 4700 E       |
| 1,2-Dichloroethane               | 10              | Not Detected |
| Trichloroethene                  | 10              | 81000 S      |
| 1,2-Dichloropropane              | 10              | Not Detected |
| Bromodichloromethane             | 10              | Not Detected |
| trans-1,3-Dichloropropene        | 10              | Not Detected |
| 4-Methyl-2-pentanone             | 50              | Not Detected |
| Toluene                          | 10              | 34000 E      |
| cis-1,3-Dichloropropene          | 10              | Not Detected |
| 1,1,2-Trichloroethane            | 10              | Not Detected |
| Tetrachloroethene                | 10              | 74000 S      |
| 2-Hexanone                       | 50              | Not Detected |
| Dibromochloromethane             | 10              | Not Detected |
| Chlorobenzene                    | 10              | Not Detected |
| Ethyl Benzene                    | 10              | 17000 E      |
| m,p-Xylene                       | 10              | 11000 E      |
| o-Xylene                         | 10              | 3300 E       |
| Styrene                          | 10              | 1100 E       |
| Bromoform                        | 10              | Not Detected |
| 1,1,2,2-Tetrachloroethane        | 10              | Not Detected |
| 1,3-Dichlorobenzene              | 10              | Not Detected |
| 1,4-Dichlorobenzene              | 10              | 610          |
| 1,2-Dichlorobenzene              | 10              | 42           |
| cis-1,2-Dichloroethene           | 10              | 51000 E      |

## TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported

| Compound                                 | CAS Number | Match Quality | Amount (nG) |
|--|------------|---------------|-------------|
| Methane, dichlorodifluoro-               | 75-71-8    | 90 %          | 31000000 S  |
| Ethane, 1,2-dichloro-1,1,2,2-tetrafluoro | 76-14-2    | 72 %          | 30000000 S  |

**AIR TOXICS LTD.**

SAMPLE NAME : 11003A/B

ID#: 9910301-05A/B

Modified VOST 5041A GC/MS Full Scan

|                     |                |                            |                 |
|---------------------|----------------|----------------------------|-----------------|
| <b>File Name:</b>   | <b>h102917</b> | <b>Date of Collection:</b> | <b>10/20/99</b> |
| <b>Dil. Factor:</b> | <b>1.00</b>    | <b>Date of Analysis:</b>   | <b>10/29/99</b> |

**TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported**

| Compound              | CAS Number | Match Quality | Amount (nG) |
|-----------------------|------------|---------------|-------------|
| 1-Propene, 2-methyl-  | 115-11-7   | 78 %          | 35000000 S  |
| Methanethiol          | 74-93-1    | 86 %          | 33000000 S  |
| Pentane               | 109-66-0   | 38 %          | 13000       |
| Pentane, 3-methyl-    | 96-14-0    | 86 %          | 8800        |
| Hexane                | 110-54-3   | 91 %          | 21000       |
| Cyclopentane, methyl- | 96-37-7    | 86 %          | 15000       |
| Cyclohexane           | 110-82-7   | 83 %          | 11000       |
| Heptane               | 142-82-5   | 90 %          | 13000       |

E = Exceeds instrument calibration range.

Q = Exceeds Quality Control limits of 70% to 130%, due to matrix effects.

S = Saturated peak; data reported as estimated.

Container Type: VOST Tube

| Surrogates            | % Recovery | Method Limits |
|-----------------------|------------|---------------|
| Dibromofluoromethane  | 600 Q      | 72-135        |
| 1,2-Dichloroethane-d4 | 860 Q      | 69-137        |
| Toluene-d8            | 639 Q      | 77-124        |
| 4-Bromofluorobenzene  | 28 Q       | 70-133        |

000121

**AIR TOXICS LTD.**

SAMPLE NAME : 11005A/B

ID#: 9910301-06A/B

Modified VOST 5041A GC/MS Full Scan

|                     |         |                                     |
|---------------------|---------|-------------------------------------|
| <b>File Name:</b>   | h110304 | <b>Date of Collection:</b> 10/20/99 |
| <b>Dil. Factor:</b> | 478     | <b>Date of Analysis:</b> 11/3/99    |

| Compound                         | Det. Limit (nG) | Amount (nG)  |
|----------------------------------|-----------------|--------------|
| Chloromethane                    | 4800            | Not Detected |
| Vinyl Chloride                   | 4800            | 180000       |
| Bromomethane                     | 4800            | Not Detected |
| Chloroethane                     | 4800            | Not Detected |
| Freon 11                         | 4800            | Not Detected |
| 1,1-Dichloroethene               | 4800            | Not Detected |
| Carbon Disulfide                 | 4800            | 110000       |
| Acetone                          | 24000           | Not Detected |
| Methylene Chloride               | 4800            | Not Detected |
| trans-1,2-Dichloroethene         | 4800            | Not Detected |
| 1,1-Dichloroethane               | 4800            | Not Detected |
| Vinyl Acetate                    | 24000           | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 24000           | Not Detected |
| Chloroform                       | 4800            | Not Detected |
| 1,1,1-Trichloroethane            | 4800            | Not Detected |
| Carbon Tetrachloride             | 4800            | Not Detected |
| Benzene                          | 4800            | Not Detected |
| 1,2-Dichloroethane               | 4800            | Not Detected |
| Trichloroethene                  | 4800            | 160000       |
| 1,2-Dichloropropane              | 4800            | Not Detected |
| Bromodichloromethane             | 4800            | Not Detected |
| trans-1,3-Dichloropropene        | 4800            | Not Detected |
| 4-Methyl-2-pentanone             | 24000           | Not Detected |
| Toluene                          | 4800            | 76000        |
| cis-1,3-Dichloropropene          | 4800            | Not Detected |
| 1,1,2-Trichloroethane            | 4800            | Not Detected |
| Tetrachloroethene                | 4800            | 390000       |
| 2-Hexanone                       | 24000           | Not Detected |
| Dibromochloromethane             | 4800            | Not Detected |
| Chlorobenzene                    | 4800            | Not Detected |
| Ethyl Benzene                    | 4800            | 71000        |
| m,p-Xylene                       | 4800            | 50000        |
| o-Xylene                         | 4800            | 11000        |
| Styrene                          | 4800            | Not Detected |
| Bromoform                        | 4800            | Not Detected |
| 1,1,2,2-Tetrachloroethane        | 4800            | Not Detected |
| 1,3-Dichlorobenzene              | 4800            | Not Detected |
| 1,4-Dichlorobenzene              | 4800            | Not Detected |
| 1,2-Dichlorobenzene              | 4800            | Not Detected |
| cis-1,2-Dichloroethene           | 4800            | 25000        |

**TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported**

| Compound                                 | CAS Number | Match Quality | Amount (nG) |
|--|------------|---------------|-------------|
| Methane, dichlorodifluoro-               | 75-71-8    | 91 %          | 180000      |
| Ethane, 1,2-dichloro-1,1,2,2-tetrafluoro | 76-14-2    | 90 %          | 380000      |

00012

**AIR TOXICS LTD.**

SAMPLE NAME : 11005A/B

ID#: 9910301-06A/B

Modified VOST 5041A GC/MS Full Scan

|                     |                |                                     |
|---------------------|----------------|-------------------------------------|
| <b>File Name:</b>   | <b>h110304</b> | <b>Date of Collection:</b> 10/20/99 |
| <b>Dil. Factor:</b> | <b>478</b>     | <b>Date of Analysis:</b> 11/3/99    |

| TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported |            |               |             |
|--|------------|---------------|-------------|
| Compound   | CAS Number | Match Quality | Amount (ng) |
| 1-Propene, 2-methyl-                               | 115-11-7   | 64 %          | 180000      |
| Hexane   | 110-54-3   | 83 %          | 98000       |
| Cyclopentane, methyl-                              | 96-37-7    | 86 %          | 81000       |
| Heptane  | 142-82-5   | 72 %          | 92000       |
| Cyclohexane, methyl-                               | 108-87-2   | 80 %          | 83000       |
| Octane   | 111-65-9   | 91 %          | 59000       |
| .alpha.-Pinene                                     | 80-56-8    | 95 %          | 180000      |
| Hexane, 2,2,5-trimethyl-                           | 3522-94-9  | 59 %          | 68000       |

Container Type: VOST Tube

| Surrogates            | % Recovery | Method Limits |
|-----------------------|------------|---------------|
| Dibromofluoromethane  | 93         | 72-135        |
| 1,2-Dichloroethane-d4 | 85         | 69-137        |
| Toluene-d8            | 106        | 77-124        |
| 4-Bromofluorobenzene  | 114        | 70-133        |
| Benzene-d6            | 132        | 50-150        |

# AIR TOXICS LTD.

SAMPLE NAME : 11108A/B

ID#: 9910301-04A/B

Modified VOST 5041A GC/MS Full Scan

|              |         |                              |
|--------------|---------|------------------------------|
| File Name:   | h102916 | Date of Collection: 10/20/99 |
| Dil. Factor: | 1.00    | Date of Analysis: 10/29/99   |

| Compound                         | Det. Limit (nG) | Amount (nG)  |
|----------------------------------|-----------------|--------------|
| Chloromethane                    | 10              | Not Detected |
| Vinyl Chloride                   | 10              | Not Detected |
| Bromomethane                     | 10              | Not Detected |
| Chloroethane                     | 10              | Not Detected |
| Freon 11                         | 10              | 24           |
| 1,1-Dichloroethene               | 10              | Not Detected |
| Carbon Disulfide                 | 10              | Not Detected |
| Acetone                          | 50              | 100          |
| Methylene Chloride               | 10              | Not Detected |
| trans-1,2-Dichloroethene         | 10              | Not Detected |
| 1,1-Dichloroethane               | 10              | Not Detected |
| Vinyl Acetate                    | 50              | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 50              | 58           |
| Chloroform                       | 10              | Not Detected |
| 1,1,1-Trichloroethane            | 10              | Not Detected |
| Carbon Tetrachloride             | 10              | Not Detected |
| Benzene                          | 10              | Not Detected |
| 1,2-Dichloroethane               | 10              | Not Detected |
| Trichloroethene                  | 10              | Not Detected |
| 1,2-Dichloropropane              | 10              | Not Detected |
| Bromodichloromethane             | 10              | Not Detected |
| trans-1,3-Dichloropropene        | 10              | Not Detected |
| 4-Methyl-2-pentanone             | 50              | Not Detected |
| Toluene                          | 10              | Not Detected |
| cis-1,3-Dichloropropene          | 10              | Not Detected |
| 1,1,2-Trichloroethane            | 10              | Not Detected |
| Tetrachloroethene                | 10              | Not Detected |
| 2-Hexanone                       | 50              | Not Detected |
| Dibromochloromethane             | 10              | Not Detected |
| Chlorobenzene                    | 10              | Not Detected |
| Ethyl Benzene                    | 10              | Not Detected |
| m,p-Xylene                       | 10              | Not Detected |
| o-Xylene                         | 10              | Not Detected |
| Styrene                          | 10              | Not Detected |
| Bromoform                        | 10              | Not Detected |
| 1,1,2,2-Tetrachloroethane        | 10              | Not Detected |
| 1,3-Dichlorobenzene              | 10              | Not Detected |
| 1,4-Dichlorobenzene              | 10              | Not Detected |
| 1,2-Dichlorobenzene              | 10              | Not Detected |
| cis-1,2-Dichloroethene           | 10              | Not Detected |

### TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported

| Compound                   | CAS Number | Match Quality | Amount (nG) |
|----------------------------|------------|---------------|-------------|
| Methane, dichlorodifluoro- | 75-71-8    | 83 %          | 35          |
| Butanal                    | 123-72-8   | 43 %          | 44          |

00004a

**AIR TOXICS LTD.**

SAMPLE NAME : 11108A/B

ID#: 9910301-04A/B

Modified VOST 5041A GC/MS Full Scan

|                     |         |                            |          |
|---------------------|---------|----------------------------|----------|
| <b>File Name:</b>   | h102916 | <b>Date of Collection:</b> | 10/20/99 |
| <b>Dil. Factor:</b> | 1.00    | <b>Date of Analysis:</b>   | 10/29/99 |

**TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported**

| Compound     | CAS Number | Match Quality | Amount (nG) |
|--------------|------------|---------------|-------------|
| Pentanal     | 110-62-3   | 56 %          | 64          |
| Hexanal      | 66-25-1    | 90 %          | 89          |
| Heptanal     | 111-71-7   | 50 %          | 81          |
| Octanal      | 124-13-0   | 97 %          | 250         |
| Nonanal      | 124-19-6   | 78 %          | 230         |
| Decanal      | 112-31-2   | 80 %          | 36          |
| Tetradecanal | 124-25-4   | 91 %          | 31          |

Container Type: VOST Tube

| Surrogates            | % Recovery | Method Limits |
|-----------------------|------------|---------------|
| Dibromofluoromethane  | 107        | 72-135        |
| 1,2-Dichloroethane-d4 | 102        | 69-137        |
| Toluene-d8            | 93         | 77-124        |
| 4-Bromofluorobenzene  | 104        | 70-133        |

**AIR TOXICS LTD.**

SAMPLE NAME : 11019A/B

ID#: 9910301-02A/B

Modified VOST 5041A GC/MS Full Scan

|                     |                |                                     |
|---------------------|----------------|-------------------------------------|
| <b>File Name:</b>   | <b>h102914</b> | <b>Date of Collection:</b> 10/20/99 |
| <b>Dil. Factor:</b> | <b>1.00</b>    | <b>Date of Analysis:</b> 10/29/99   |

| Compound                         | Det. Limit (nG) | Amount (nG)  |
|----------------------------------|-----------------|--------------|
| Chloromethane                    | 10              | Not Detected |
| Vinyl Chloride                   | 10              | Not Detected |
| Bromomethane                     | 10              | Not Detected |
| Chloroethane                     | 10              | Not Detected |
| Freon 11                         | 10              | 65           |
| 1,1-Dichloroethene               | 10              | Not Detected |
| Carbon Disulfide                 | 10              | 14           |
| Acetone                          | 50              | 62           |
| Methylene Chloride               | 10              | Not Detected |
| trans-1,2-Dichloroethene         | 10              | Not Detected |
| 1,1-Dichloroethane               | 10              | Not Detected |
| Vinyl Acetate                    | 50              | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 50              | Not Detected |
| Chloroform                       | 10              | Not Detected |
| 1,1,1-Trichloroethane            | 10              | Not Detected |
| Carbon Tetrachloride             | 10              | Not Detected |
| Benzene                          | 10              | Not Detected |
| 1,2-Dichloroethane               | 10              | Not Detected |
| Trichloroethene                  | 10              | Not Detected |
| 1,2-Dichloropropane              | 10              | Not Detected |
| Bromodichloromethane             | 10              | Not Detected |
| trans-1,3-Dichloropropene        | 10              | Not Detected |
| 4-Methyl-2-pentanone             | 50              | Not Detected |
| Toluene                          | 10              | Not Detected |
| cis-1,3-Dichloropropene          | 10              | Not Detected |
| 1,1,2-Trichloroethane            | 10              | Not Detected |
| Tetrachloroethene                | 10              | Not Detected |
| 2-Hexanone                       | 50              | Not Detected |
| Dibromochloromethane             | 10              | Not Detected |
| Chlorobenzene                    | 10              | Not Detected |
| Ethyl Benzene                    | 10              | Not Detected |
| m,p-Xylene                       | 10              | Not Detected |
| o-Xylene                         | 10              | Not Detected |
| Styrene                          | 10              | Not Detected |
| Bromoform                        | 10              | Not Detected |
| 1,1,2,2-Tetrachloroethane        | 10              | Not Detected |
| 1,3-Dichlorobenzene              | 10              | Not Detected |
| 1,4-Dichlorobenzene              | 10              | Not Detected |
| 1,2-Dichlorobenzene              | 10              | Not Detected |
| cis-1,2-Dichloroethene           | 10              | Not Detected |

**TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported**

| Compound                   | CAS Number | Match Quality | Amount (nG) |
|----------------------------|------------|---------------|-------------|
| Methane, dichlorodifluoro- | 75-71-8    | 83 %          | 33          |
| Octanal                    | 124-13-0   | 78 %          | 34          |

000026

**AIR TOXICS LTD.**

SAMPLE NAME : 11019A/B

ID#: 9910301-02A/B

Modified VOST 5041A GC/MS Full Scan

|              |         |                     |          |
|--------------|---------|---------------------|----------|
| File Name:   | h102914 | Date of Collection: | 10/20/99 |
| Dil. Factor: | 1.00    | Date of Analysis:   | 10/29/99 |

| TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported |            |               |             |
|--|------------|---------------|-------------|
| Compound   | CAS Number | Match Quality | Amount (nG) |

Container Type: VOST Tube

| Surrogates            | % Recovery | Method Limits |
|-----------------------|------------|---------------|
| Dibromofluoromethane  | 104        | 72-135        |
| 1,2-Dichloroethane-d4 | 100        | 69-137        |
| Toluene-d8            | 97         | 77-124        |
| 4-Bromofluorobenzene  | 103        | 70-133        |

000031

**AIR TOXICS LTD.**

SAMPLE NAME : 11105 a&amp;b

ID#: 9910316-03A/B

Modified VOST 5041A GC/MS Full Scan

|              |         |                     |          |
|--------------|---------|---------------------|----------|
| File Name:   | h110213 | Date of Collection: | 10/21/99 |
| Dil. Factor: | 1.00    | Date of Analysis:   | 11/2/99  |

| Compound                         | Det. Limit<br>(nG) | Det. Limit<br>(uG/m3) | Amount<br>(nG) | Amount<br>(uG/m3) |
|----------------------------------|--------------------|-----------------------|----------------|-------------------|
| Chloromethane                    | 10                 | 21                    | Not Detected   | Not Detected      |
| Vinyl Chloride                   | 10                 | 26                    | Not Detected   | Not Detected      |
| Bromomethane                     | 10                 | 39                    | Not Detected   | Not Detected      |
| Chloroethane                     | 10                 | 27                    | Not Detected   | Not Detected      |
| Freon 11                         | 10                 | 57                    | 16             | 90                |
| 1,1-Dichloroethene               | 10                 | 40                    | Not Detected   | Not Detected      |
| Carbon Disulfide                 | 10                 | 32                    | 100            | 320               |
| Acetone                          | 50                 | 120                   | 93             | 220               |
| Methylene Chloride               | 10                 | 35                    | Not Detected   | Not Detected      |
| trans-1,2-Dichloroethene         | 10                 | 40                    | Not Detected   | Not Detected      |
| 1,1-Dichloroethane               | 10                 | 41                    | Not Detected   | Not Detected      |
| Vinyl Acetate                    | 50                 | 180                   | Not Detected   | Not Detected      |
| 2-Butanone (Methyl Ethyl Ketone) | 50                 | 150                   | 60             | 180               |
| Chloroform                       | 10                 | 50                    | Not Detected   | Not Detected      |
| 1,1,1-Trichloroethane            | 10                 | 55                    | Not Detected   | Not Detected      |
| Carbon Tetrachloride             | 10                 | 64                    | Not Detected   | Not Detected      |
| Benzene                          | 10                 | 32                    | 13             | 44                |
| 1,2-Dichloroethane               | 10                 | 41                    | Not Detected   | Not Detected      |
| Trichloroethene                  | 10                 | 55                    | Not Detected   | Not Detected      |
| 1,2-Dichloropropane              | 10                 | 47                    | Not Detected   | Not Detected      |
| Bromodichloromethane             | 10                 | 68                    | Not Detected   | Not Detected      |
| trans-1,3-Dichloropropene        | 10                 | 46                    | Not Detected   | Not Detected      |
| 4-Methyl-2-pentanone             | 50                 | 210                   | Not Detected   | Not Detected      |
| Toluene                          | 10                 | 38                    | 18             | 68                |
| cis-1,3-Dichloropropene          | 10                 | 46                    | Not Detected   | Not Detected      |
| 1,1,2-Trichloroethane            | 10                 | 55                    | Not Detected   | Not Detected      |
| Tetrachloroethene                | 10                 | 69                    | Not Detected   | Not Detected      |
| 2-Hexanone                       | 50                 | 210                   | Not Detected   | Not Detected      |
| Dibromochloromethane             | 10                 | 86                    | Not Detected   | Not Detected      |
| Chlorobenzene                    | 10                 | 47                    | Not Detected   | Not Detected      |
| Ethyl Benzene                    | 10                 | 44                    | 11             | 48                |
| m,p-Xylene                       | 10                 | 44                    | Not Detected   | Not Detected      |
| o-Xylene                         | 10                 | 44                    | Not Detected   | Not Detected      |
| Styrene                          | 10                 | 43                    | 12             | 52                |
| Bromoform                        | 10                 | 100                   | Not Detected   | Not Detected      |
| 1,1,2,2-Tetrachloroethane        | 10                 | 70                    | Not Detected   | Not Detected      |
| 1,3-Dichlorobenzene              | 10                 | 61                    | Not Detected   | Not Detected      |
| 1,4-Dichlorobenzene              | 10                 | 61                    | Not Detected   | Not Detected      |
| 1,2-Dichlorobenzene              | 10                 | 61                    | Not Detected   | Not Detected      |
| cis-1,2-Dichloroethene           | 10                 | 40                    | Not Detected   | Not Detected      |

00003

**AIR TOXICS LTD.**

SAMPLE NAME : 11105 a&amp;b

ID#: 9910316-03A/B

Modified VOST 5041A GC/MS Full Scan

|              |         |                     |          |
|--------------|---------|---------------------|----------|
| File Name:   | h110213 | Date of Collection: | 10/21/99 |
| Dil. Factor: | 1.00    | Date of Analysis:   | 11/2/99  |

## TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported

| Compound                   | CAS Number | Match Quality | Amount (nG) |
|----------------------------|------------|---------------|-------------|
| Methane, dichlorodifluoro- | 75-71-8    | 83 %          | 26          |
| Butanal                    | 123-72-8   | 91 %          | 31          |
| Pentanal                   | 110-62-3   | 43 %          | 46          |
| Hexanal                    | 66-25-1    | 90 %          | 48          |
| Heptanal                   | 111-71-7   | 40 %          | 27          |
| .alpha.-Pinene             | 80-56-8    | 95 %          | 67          |
| Camphene                   | 79-92-5    | 86 %          | 160         |
| .beta.-Pinene              | 127-91-3   | 91 %          | 45          |
| Octanal                    | 124-13-0   | 86 %          | 61          |
| Nonanal                    | 124-19-6   | 83 %          | 36          |

Container Type: VOST Tube

| Surrogates            | % Recovery | Method Limits |
|-----------------------|------------|---------------|
| Dibromofluoromethane  | 82         | 72-135        |
| 1,2-Dichloroethane-d4 | 75         | 69-137        |
| Toluene-d8            | 100        | 77-124        |
| 4-Bromofluorobenzene  | 105        | 70-133        |

**AIR TOXICS LTD.**

SAMPLE NAME : 11022A/B

ID#: 9910301-08A/B

Modified VOST 5041A GC/MS Full Scan

|                     |                |                                     |
|---------------------|----------------|-------------------------------------|
| <b>File Name:</b>   | <b>h110208</b> | <b>Date of Collection:</b> 10/20/99 |
| <b>Dil. Factor:</b> | <b>1.00</b>    | <b>Date of Analysis:</b> 11/2/99    |

| Compound                         | Det. Limit (nG) | Amount (nG)  |
|----------------------------------|-----------------|--------------|
| Chloromethane                    | 10              | Not Detected |
| Vinyl Chloride                   | 10              | Not Detected |
| Bromomethane                     | 10              | Not Detected |
| Chloroethane                     | 10              | Not Detected |
| Freon 11                         | 10              | 17           |
| 1,1-Dichloroethene               | 10              | Not Detected |
| Carbon Disulfide                 | 10              | 21           |
| Acetone                          | 50              | 94           |
| Methylene Chloride               | 10              | 13           |
| trans-1,2-Dichloroethene         | 10              | Not Detected |
| 1,1-Dichloroethane               | 10              | Not Detected |
| Vinyl Acetate                    | 50              | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 50              | 54           |
| Chloroform                       | 10              | Not Detected |
| 1,1,1-Trichloroethane            | 10              | Not Detected |
| Carbon Tetrachloride             | 10              | Not Detected |
| Benzene                          | 10              | Not Detected |
| 1,2-Dichloroethane               | 10              | Not Detected |
| Trichloroethene                  | 10              | Not Detected |
| 1,2-Dichloropropane              | 10              | Not Detected |
| Bromodichloromethane             | 10              | Not Detected |
| trans-1,3-Dichloropropene        | 10              | Not Detected |
| 4-Methyl-2-pentanone             | 50              | Not Detected |
| Toluene                          | 10              | Not Detected |
| cis-1,3-Dichloropropene          | 10              | Not Detected |
| 1,1,2-Trichloroethane            | 10              | Not Detected |
| Tetrachloroethene                | 10              | 11           |
| 2-Hexanone                       | 50              | Not Detected |
| Dibromochloromethane             | 10              | Not Detected |
| Chlorobenzene                    | 10              | Not Detected |
| Ethyl Benzene                    | 10              | Not Detected |
| m,p-Xylene                       | 10              | Not Detected |
| o-Xylene                         | 10              | Not Detected |
| Styrene                          | 10              | Not Detected |
| Bromoform                        | 10              | Not Detected |
| 1,1,2,2-Tetrachloroethane        | 10              | Not Detected |
| 1,3-Dichlorobenzene              | 10              | Not Detected |
| 1,4-Dichlorobenzene              | 10              | Not Detected |
| 1,2-Dichlorobenzene              | 10              | Not Detected |
| cis-1,2-Dichloroethene           | 10              | Not Detected |

**TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported**

| Compound                   | CAS Number | Match Quality | Amount (nG) |
|----------------------------|------------|---------------|-------------|
| Methane, dichlorodifluoro- | 75-71-8    | 90 %          | 28          |
| Hexanal                    | 66-25-1    | 90 %          | 41          |

**AIR TOXICS LTD.**

SAMPLE NAME : 11022A/B

ID#: 9910301-08A/B

Modified VOST 5041A GC/MS Full Scan

|              |         |                     |          |
|--------------|---------|---------------------|----------|
| File Name:   | h110208 | Date of Collection: | 10/20/99 |
| Dil. Factor: | 1.00    | Date of Analysis:   | 11/2/99  |

## TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported

| Compound | CAS Number | Match Quality | Amount (nG) |
|----------|------------|---------------|-------------|
| Heptanal | 111-71-7   | 53 %          | 31          |
| Octanal  | 124-13-0   | 90 %          | 110         |
| Nonanal  | 124-19-6   | 83 %          | 120         |

Container Type: VOST Tube

| Surrogates            | % Recovery | Method Limits |
|-----------------------|------------|---------------|
| Dibromofluoromethane  | 91         | 72-135        |
| 1,2-Dichloroethane-d4 | 84         | 69-137        |
| Toluene-d8            | 100        | 77-124        |
| 4-Bromofluorobenzene  | 107        | 70-133        |

# AIR TOXICS LTD.

SAMPLE NAME : 11021B

ID#: 9910301-07B

Modified VOST 5041A GC/MS Full Scan

|              |         |                              |
|--------------|---------|------------------------------|
| File Name:   | h110207 | Date of Collection: 10/20/99 |
| Dil. Factor: | 1.00    | Date of Analysis: 11/2/99    |

| Compound                         | Det. Limit (nG) | Amount (nG)  |
|----------------------------------|-----------------|--------------|
| Chloromethane                    | 10              | Not Detected |
| Vinyl Chloride                   | 10              | Not Detected |
| Bromomethane                     | 10              | Not Detected |
| Chloroethane                     | 10              | Not Detected |
| Freon 11                         | 10              | 24           |
| 1,1-Dichloroethene               | 10              | Not Detected |
| Carbon Disulfide                 | 10              | Not Detected |
| Acetone                          | 50              | Not Detected |
| Methylene Chloride               | 10              | Not Detected |
| trans-1,2-Dichloroethene         | 10              | Not Detected |
| 1,1-Dichloroethane               | 10              | Not Detected |
| Vinyl Acetate                    | 50              | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 50              | Not Detected |
| Chloroform                       | 10              | Not Detected |
| 1,1,1-Trichloroethane            | 10              | Not Detected |
| Carbon Tetrachloride             | 10              | Not Detected |
| Benzene                          | 10              | Not Detected |
| 1,2-Dichloroethane               | 10              | Not Detected |
| Trichloroethene                  | 10              | Not Detected |
| 1,2-Dichloropropane              | 10              | Not Detected |
| Bromodichloromethane             | 10              | Not Detected |
| trans-1,3-Dichloropropene        | 10              | Not Detected |
| 4-Methyl-2-pentanone             | 50              | Not Detected |
| Toluene                          | 10              | Not Detected |
| cis-1,3-Dichloropropene          | 10              | Not Detected |
| 1,1,2-Trichloroethane            | 10              | Not Detected |
| Tetrachloroethene                | 10              | 34           |
| 2-Hexanone                       | 50              | Not Detected |
| Dibromochloromethane             | 10              | Not Detected |
| Chlorobenzene                    | 10              | Not Detected |
| Ethyl Benzene                    | 10              | Not Detected |
| m,p-Xylene                       | 10              | Not Detected |
| o-Xylene                         | 10              | Not Detected |
| Styrene                          | 10              | Not Detected |
| Bromoform                        | 10              | Not Detected |
| 1,1,2,2-Tetrachloroethane        | 10              | Not Detected |
| 1,3-Dichlorobenzene              | 10              | Not Detected |
| 1,4-Dichlorobenzene              | 10              | Not Detected |
| 1,2-Dichlorobenzene              | 10              | Not Detected |
| cis-1,2-Dichloroethene           | 10              | Not Detected |

### TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported

| Compound                                 | CAS Number | Match Quality | Amount (nG) |
|--|------------|---------------|-------------|
| Methane, dichlorodifluoro-               | 75-71-8    | 91 %          | 350         |
| Ethane, 1,2-dichloro-1,1,2,2-tetrafluoro | 76-14-2    | 90 %          | 1200        |

**AIR TOXICS LTD.**

SAMPLE NAME : 11021B

ID#: 9910301-07B

Modified VOST 5041A GC/MS Full Scan

|              |         |                     |          |
|--------------|---------|---------------------|----------|
| File Name:   | h110207 | Date of Collection: | 10/20/99 |
| Dil. Factor: | 1.00    | Date of Analysis:   | 11/2/99  |

## TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported

| Compound | CAS Number | Match Quality | Amount (ng) |
|----------|------------|---------------|-------------|
|----------|------------|---------------|-------------|

Container Type: VOST Tube

| Surrogates            | % Recovery | Method Limits |
|-----------------------|------------|---------------|
| Dibromofluoromethane  | 92         | 72-135        |
| 1,2-Dichloroethane-d4 | 85         | 69-137        |
| Toluene-d8            | 99         | 77-124        |
| 4-Bromofluorobenzene  | 106        | 70-133        |

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**AIR TOXICS LTD.**

SAMPLE NAME : 11107 a&amp;b

ID#: 9910316-05A/B

Modified VOST 5041A GC/MS Full Scan

|              |         |                     |          |
|--------------|---------|---------------------|----------|
| File Name:   | h110215 | Date of Collection: | 10/21/99 |
| Dil. Factor: | 1.00    | Date of Analysis:   | 11/2/99  |

| Compound                         | Det. Limit<br>(nG) | Det. Limit<br>(uG/m3) | Amount<br>(nG) | Amount<br>(uG/m3) |
|----------------------------------|--------------------|-----------------------|----------------|-------------------|
| Chloromethane                    | 10                 | 21                    | Not Detected   | Not Detected      |
| Vinyl Chloride                   | 10                 | 26                    | Not Detected   | Not Detected      |
| Bromomethane                     | 10                 | 39                    | Not Detected   | Not Detected      |
| Chloroethane                     | 10                 | 27                    | Not Detected   | Not Detected      |
| Freon 11                         | 10                 | 57                    | 1900 E         | 11000 E           |
| 1,1-Dichloroethene               | 10                 | 40                    | Not Detected   | Not Detected      |
| Carbon Disulfide                 | 10                 | 32                    | 25             | 79                |
| Acetone                          | 50                 | 120                   | 150            | 350               |
| Methylene Chloride               | 10                 | 35                    | 100            | 350               |
| trans-1,2-Dichloroethene         | 10                 | 40                    | 150            | 620               |
| 1,1-Dichloroethane               | 10                 | 41                    | 120            | 490               |
| Vinyl Acetate                    | 50                 | 180                   | Not Detected   | Not Detected      |
| 2-Butanone (Methyl Ethyl Ketone) | 50                 | 150                   | 130            | 380               |
| Chloroform                       | 10                 | 50                    | 65             | 320               |
| 1,1,1-Trichloroethane            | 10                 | 55                    | 260            | 1400              |
| Carbon Tetrachloride             | 10                 | 64                    | Not Detected   | Not Detected      |
| Benzene                          | 10                 | 32                    | 39             | 130               |
| 1,2-Dichloroethane               | 10                 | 41                    | Not Detected   | Not Detected      |
| Trichloroethene                  | 10                 | 55                    | 840            | 4600              |
| 1,2-Dichloropropane              | 10                 | 47                    | 25             | 120               |
| Bromodichloromethane             | 10                 | 68                    | Not Detected   | Not Detected      |
| trans-1,3-Dichloropropene        | 10                 | 46                    | Not Detected   | Not Detected      |
| 4-Methyl-2-pentanone             | 50                 | 210                   | 65             | 270               |
| Toluene                          | 10                 | 38                    | 420            | 1600              |
| cis-1,3-Dichloropropene          | 10                 | 46                    | Not Detected   | Not Detected      |
| 1,1,2-Trichloroethane            | 10                 | 55                    | Not Detected   | Not Detected      |
| Tetrachloroethene                | 10                 | 69                    | 21000 S        | 140000 S          |
| 2-Hexanone                       | 50                 | 210                   | Not Detected   | Not Detected      |
| Dibromochloromethane             | 10                 | 86                    | Not Detected   | Not Detected      |
| Chlorobenzene                    | 10                 | 47                    | Not Detected   | Not Detected      |
| Ethyl Benzene                    | 10                 | 44                    | 300            | 1300              |
| m,p-Xylene                       | 10                 | 44                    | 82             | 360               |
| o-Xylene                         | 10                 | 44                    | 28             | 120               |
| Styrene                          | 10                 | 43                    | 1200 E         | 5000 E            |
| Bromoform                        | 10                 | 100                   | Not Detected   | Not Detected      |
| 1,1,2,2-Tetrachloroethane        | 10                 | 70                    | Not Detected   | Not Detected      |
| 1,3-Dichlorobenzene              | 10                 | 61                    | Not Detected   | Not Detected      |
| 1,4-Dichlorobenzene              | 10                 | 61                    | 58             | 350               |
| 1,2-Dichlorobenzene              | 10                 | 61                    | Not Detected   | Not Detected      |
| cis-1,2-Dichloroethene           | 10                 | 40                    | 500            | 2000              |

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**AIR TOXICS LTD.**

SAMPLE NAME : 11107 a&amp;b

ID#: 9910316-05A/B

Modified VOST 5041A GC/MS Full Scan

|              |         |                     |          |
|--------------|---------|---------------------|----------|
| File Name:   | h110215 | Date of Collection: | 10/21/99 |
| Dil. Factor: | 1.00    | Date of Analysis:   | 11/2/99  |

## TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported

| Compound                                 | CAS Number | Match Quality | Amount (nG) |
|--|------------|---------------|-------------|
| Ethane, 1,1,1,2-tetrafluoro-             | 811-97-2   | 59 %          | 280         |
| Methane, dichlorodifluoro-               | 75-71-8    | 83 %          | 22000       |
| Ethane, 1,2-dichloro-1,1,2,2-tetrafluoro | 76-14-2    | 90 %          | 29000       |
| Pentane                                  | 109-66-0   | 47 %          | 59          |
| Ethane, 1,2-dichloro-1,1,2-trifluoro-    | 354-23-4   | 91 %          | 390         |
| Ethane, 1,1,2-trichloro-1,2,2-trifluoro- | 76-13-1    | 64 %          | 230         |
| Pentane, 2,3,3-trimethyl-                | 560-21-4   | 90 %          | 35          |
| Benzene, (1-methylethyl)-                | 98-82-8    | 91 %          | 330         |
| Decane                                   | 124-18-5   | 93 %          | 160         |
| Hexane, 3-methyl-                        | 589-34-4   | 53 %          | 83          |

Methane, dichlorodifluoro- and Ethane, 1,2-dichloro-1,1,2,2-tetrafluoro were saturated; data reported as estimated.

E = Exceeds instrument calibration range.

Q = Exceeds Quality Control limits.

S = Saturated peak; data reported as estimated.

Container Type: VOST Tube

| Surrogates            | % Recovery | Method Limits |
|-----------------------|------------|---------------|
| Dibromofluoromethane  | 95         | 72-135        |
| 1,2-Dichloroethane-d4 | 86         | 69-137        |
| Toluene-d8            | 221 Q      | 77-124        |
| 4-Bromofluorobenzene  | 54 Q       | 70-133        |

# AIR TOXICS LTD.

SAMPLE NAME : 11104 a&b

ID#: 9910316-06A/B

Modified VOST 5041A GC/MS Full Scan

|              |         |                     |          |
|--------------|---------|---------------------|----------|
| File Name:   | h110306 | Date of Collection: | 10/21/99 |
| Dil. Factor: | 1.00    | Date of Analysis:   | 11/3/99  |

| Compound                         | Det. Limit<br>(nG) | Det. Limit<br>(uG/m3) | Amount<br>(nG) | Amount<br>(uG/m3) |
|----------------------------------|--------------------|-----------------------|----------------|-------------------|
| Chloromethane                    | 10                 | 21                    | Not Detected   | Not Detected      |
| Vinyl Chloride                   | 10                 | 26                    | Not Detected   | Not Detected      |
| Bromomethane                     | 10                 | 39                    | Not Detected   | Not Detected      |
| Chloroethane                     | 10                 | 27                    | Not Detected   | Not Detected      |
| Freon 11                         | 10                 | 57                    | 4000 E         | 23000 E           |
| 1,1-Dichloroethene               | 10                 | 40                    | Not Detected   | Not Detected      |
| Carbon Disulfide                 | 10                 | 32                    | 18             | 57                |
| Acetone                          | 50                 | 120                   | Not Detected   | Not Detected      |
| Methylene Chloride               | 10                 | 35                    | Not Detected   | Not Detected      |
| trans-1,2-Dichloroethene         | 10                 | 40                    | Not Detected   | Not Detected      |
| 1,1-Dichloroethane               | 10                 | 41                    | 72             | 300               |
| Vinyl Acetate                    | 50                 | 180                   | Not Detected   | Not Detected      |
| 2-Butanone (Methyl Ethyl Ketone) | 50                 | 150                   | Not Detected   | Not Detected      |
| Chloroform                       | 10                 | 50                    | 29             | 140               |
| 1,1,1-Trichloroethane            | 10                 | 55                    | 48             | 270               |
| Carbon Tetrachloride             | 10                 | 64                    | Not Detected   | Not Detected      |
| Benzene                          | 10                 | 32                    | Not Detected   | Not Detected      |
| 1,2-Dichloroethane               | 10                 | 41                    | Not Detected   | Not Detected      |
| Trichloroethene                  | 10                 | 55                    | 16             | 90                |
| 1,2-Dichloropropane              | 10                 | 47                    | Not Detected   | Not Detected      |
| Bromodichloromethane             | 10                 | 68                    | Not Detected   | Not Detected      |
| trans-1,3-Dichloropropene        | 10                 | 46                    | Not Detected   | Not Detected      |
| 4-Methyl-2-pentanone             | 50                 | 210                   | Not Detected   | Not Detected      |
| Toluene                          | 10                 | 38                    | 110            | 420               |
| cis-1,3-Dichloropropene          | 10                 | 46                    | Not Detected   | Not Detected      |
| 1,1,2-Trichloroethane            | 10                 | 55                    | Not Detected   | Not Detected      |
| Tetrachloroethene                | 10                 | 69                    | 2600 S         | 18000 S           |
| 2-Hexanone                       | 50                 | 210                   | Not Detected   | Not Detected      |
| Dibromochloromethane             | 10                 | 86                    | Not Detected   | Not Detected      |
| Chlorobenzene                    | 10                 | 47                    | Not Detected   | Not Detected      |
| Ethyl Benzene                    | 10                 | 44                    | Not Detected   | Not Detected      |
| m,p-Xylene                       | 10                 | 44                    | Not Detected   | Not Detected      |
| o-Xylene                         | 10                 | 44                    | Not Detected   | Not Detected      |
| Styrene                          | 10                 | 43                    | Not Detected   | Not Detected      |
| Bromoform                        | 10                 | 100                   | Not Detected   | Not Detected      |
| 1,1,2,2-Tetrachloroethane        | 10                 | 70                    | Not Detected   | Not Detected      |
| 1,3-Dichlorobenzene              | 10                 | 61                    | Not Detected   | Not Detected      |
| 1,4-Dichlorobenzene              | 10                 | 61                    | Not Detected   | Not Detected      |
| 1,2-Dichlorobenzene              | 10                 | 61                    | Not Detected   | Not Detected      |
| cis-1,2-Dichloroethene           | 10                 | 40                    | Not Detected   | Not Detected      |

000124

**AIR TOXICS LTD.**

SAMPLE NAME : 11104 a&amp;b

ID#: 9910316-06A/B

Modified VOST 5041A GC/MS Full Scan

|              |         |                     |          |
|--------------|---------|---------------------|----------|
| File Name:   | h110306 | Date of Collection: | 10/21/99 |
| Dil. Factor: | 1.00    | Date of Analysis:   | 11/3/99  |

**TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported**

| Compound                                 | CAS Number | Match Quality | Amount (nG) |
|--|------------|---------------|-------------|
| Ethene, chlorotrifluoro-                 | 79-38-9    | 94 %          | 74          |
| Methane, dichlorodifluoro-               | 75-71-8    | 91 %          | 7700        |
| Ethane, 1,2-dichloro-1,1,2,2-tetrafluoro | 76-14-2    | 90 %          | 9000        |
| Ethane, 1,2,2-trichloro-1,1-difluoro-    | 354-21-2   | 9 %           | 130         |
| Unknown                                  | NA         | NA            | 62          |
| Ethane, 1,2-dichloro-1,1,2-trifluoro-    | 354-23-4   | 91 %          | 270         |
| Ethane, 1,1,2-trichloro-1,2,2-trifluoro- | 76-13-1    | 72 %          | 340         |
| Hexanal                                  | 66-25-1    | 90 %          | 82          |
| Octanal                                  | 124-13-0   | 78 %          | 80          |
| Nonanal                                  | 124-19-6   | 78 %          | 69          |

Methane, dichlorodifluoro- and Ethane, 1,2-dichloro-1,1,2,2-tetrafluoro were saturated; data reported as estimated.

E = Exceeds instrument calibration range.

S = Saturated peak; data reported as estimated.

Container Type: VOST Tube

| Surrogates            | % Recovery | Method Limits |
|-----------------------|------------|---------------|
| Dibromofluoromethane  | 93         | 72-135        |
| 1,2-Dichloroethane-d4 | 84         | 69-137        |
| Toluene-d8            | 113        | 77-124        |
| 4-Bromofluorobenzene  | 113        | 70-133        |

000151

## AIR TOXICS LTD.

SAMPLE NAME : H105 a&amp;b 11015

ID#: 9910316-07A/B

Modified VOST 5041A GC/MS Full Scan

|              |         |                     |          |
|--------------|---------|---------------------|----------|
| File Name:   | h110308 | Date of Collection: | 10/21/99 |
| Dil. Factor: | 1.00    | Date of Analysis:   | 11/3/99  |

| Compound                         | Det. Limit<br>(nG) | Det. Limit<br>(uG/m3) | Amount<br>(nG) | Amount<br>(uG/m3) |
|----------------------------------|--------------------|-----------------------|----------------|-------------------|
| Chloromethane                    | 10                 | 21                    | Not Detected   | Not Detected      |
| Vinyl Chloride                   | 10                 | 26                    | Not Detected   | Not Detected      |
| Bromomethane                     | 10                 | 39                    | Not Detected   | Not Detected      |
| Chloroethane                     | 10                 | 27                    | Not Detected   | Not Detected      |
| Freon 11                         | 10                 | 57                    | 2200 E         | 13000 E           |
| 1,1-Dichloroethene               | 10                 | 40                    | Not Detected   | Not Detected      |
| Carbon Disulfide                 | 10                 | 32                    | 33             | 100               |
| Acetone                          | 50                 | 120                   | 180            | 420               |
| Methylene Chloride               | 10                 | 35                    | Not Detected   | Not Detected      |
| trans-1,2-Dichloroethene         | 10                 | 40                    | Not Detected   | Not Detected      |
| 1,1-Dichloroethane               | 10                 | 41                    | 430            | 1800              |
| Vinyl Acetate                    | 50                 | 180                   | Not Detected   | Not Detected      |
| 2-Butanone (Methyl Ethyl Ketone) | 50                 | 150                   | 60             | 180               |
| Chloroform                       | 10                 | 50                    | 150            | 750               |
| 1,1,1-Trichloroethane            | 10                 | 55                    | 13             | 73                |
| Carbon Tetrachloride             | 10                 | 64                    | Not Detected   | Not Detected      |
| Benzene                          | 10                 | 32                    | 10             | 34                |
| 1,2-Dichloroethane               | 10                 | 41                    | Not Detected   | Not Detected      |
| Trichloroethene                  | 10                 | 55                    | 580            | 3200              |
| 1,2-Dichloropropane              | 10                 | 47                    | Not Detected   | Not Detected      |
| Bromodichloromethane             | 10                 | 68                    | Not Detected   | Not Detected      |
| trans-1,3-Dichloropropene        | 10                 | 46                    | Not Detected   | Not Detected      |
| 4-Methyl-2-pentanone             | 50                 | 210                   | Not Detected   | Not Detected      |
| Toluene                          | 10                 | 38                    | 130            | 510               |
| cis-1,3-Dichloropropene          | 10                 | 46                    | Not Detected   | Not Detected      |
| 1,1,2-Trichloroethane            | 10                 | 55                    | Not Detected   | Not Detected      |
| Tetrachloroethene                | 10                 | 69                    | 2800 S         | 19000 S           |
| 2-Hexanone                       | 50                 | 210                   | Not Detected   | Not Detected      |
| Dibromochloromethane             | 10                 | 86                    | Not Detected   | Not Detected      |
| Chlorobenzene                    | 10                 | 47                    | Not Detected   | Not Detected      |
| Ethyl Benzene                    | 10                 | 44                    | 28             | 120               |
| m,p-Xylene                       | 10                 | 44                    | 32             | 140               |
| o-Xylene                         | 10                 | 44                    | 21             | 94                |
| Styrene                          | 10                 | 43                    | Not Detected   | Not Detected      |
| Bromoform                        | 10                 | 100                   | Not Detected   | Not Detected      |
| 1,1,2,2-Tetrachloroethane        | 10                 | 70                    | Not Detected   | Not Detected      |
| 1,3-Dichlorobenzene              | 10                 | 61                    | Not Detected   | Not Detected      |
| 1,4-Dichlorobenzene              | 10                 | 61                    | 320            | 1900              |
| 1,2-Dichlorobenzene              | 10                 | 61                    | Not Detected   | Not Detected      |
| cis-1,2-Dichloroethene           | 10                 | 40                    | 15             | 60                |

000152

**AIR TOXICS LTD.**

SAMPLE NAME : 11105 a&amp;b

ID#: 9910316-07A/B

Modified VOST 5041A GC/MS Full Scan

|              |         |                     |          |
|--------------|---------|---------------------|----------|
| File Name:   | h110308 | Date of Collection: | 10/21/99 |
| Dil. Factor: | 1.00    | Date of Analysis:   | 11/3/99  |

## TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported

| Compound                                 | CAS Number | Match Quality | Amount (nG) |
|--|------------|---------------|-------------|
| Methane, dichlorodifluoro-               | 75-71-8    | 91 %          | 5400        |
| Ethane, 1,2-dichloro-1,1,2,2-tetrafluoro | 76-14-2    | 53 %          | 5700        |
| 2-Pyrazoline, 1-isopropyl-5-methyl-      | 26964-54-5 | 90 %          | 320         |
| Cyclohexane, 1,2,4-trimethyl-            | 2234-75-5  | 83 %          | 240         |
| Cyclohexane, 2,4-diethyl-1-methyl-       | 61142-70-9 | 53 %          | 250         |
| 1H-1,2,4-Triazole, 1-ethyl-              | 16778-70-4 | 50 %          | 280         |
| 3-Octene, 4-ethyl-                       | 53966-51-1 | 70 %          | 320         |
| Cyclohexane, 1-ethyl-1,4-dimethyl-, cis- | 62238-30-6 | 64 %          | 260         |
| 4-Octene, 2,6-dimethyl-, [S-(E)]-        | 62960-76-3 | 76 %          | 160         |
| Decane, 2,3,8-trimethyl-                 | 62238-14-6 | 59 %          | 220         |

Methane, dichlorodifluoro- and Ethane, 1,2-dichloro-1,1,2,2-tetrafluoro were saturated; data reported as estimated.

E = Exceeds instrument calibration range.

S = Saturated peak; data reported as estimated.

Container Type: VOST Tube

| Surrogates            | % Recovery | Method Limits |
|-----------------------|------------|---------------|
| Dibromofluoromethane  | 92         | 72-135        |
| 1,2-Dichloroethane-d4 | 83         | 69-137        |
| Toluene-d8            | 112        | 77-124        |
| 4-Bromofluorobenzene  | 108        | 70-133        |

# AIR TOXICS LTD.

SAMPLE NAME : 11002 a&b

ID#: 9910316-08A/B

Modified VOST 5041A GC/MS Full Scan

|              |         |                     |          |
|--------------|---------|---------------------|----------|
| File Name:   | h110310 | Date of Collection: | 10/21/99 |
| Dil. Factor: | 1.00    | Date of Analysis:   | 11/3/99  |

| Compound                         | Det. Limit<br>(nG) | Det. Limit<br>(uG/m3) | Amount<br>(nG) | Amount<br>(uG/m3) |
|----------------------------------|--------------------|-----------------------|----------------|-------------------|
| Chloromethane                    | 10                 | 21                    | Not Detected   | Not Detected      |
| Vinyl Chloride                   | 10                 | 26                    | Not Detected   | Not Detected      |
| Bromomethane                     | 10                 | 39                    | Not Detected   | Not Detected      |
| Chloroethane                     | 10                 | 27                    | Not Detected   | Not Detected      |
| Freon 11                         | 10                 | 57                    | 12             | 66                |
| 1,1-Dichloroethene               | 10                 | 40                    | Not Detected   | Not Detected      |
| Carbon Disulfide                 | 10                 | 32                    | 28             | 89                |
| Acetone                          | 50                 | 120                   | Not Detected   | Not Detected      |
| Methylene Chloride               | 10                 | 35                    | Not Detected   | Not Detected      |
| trans-1,2-Dichloroethene         | 10                 | 40                    | Not Detected   | Not Detected      |
| 1,1-Dichloroethane               | 10                 | 41                    | Not Detected   | Not Detected      |
| Vinyl Acetate                    | 50                 | 180                   | Not Detected   | Not Detected      |
| 2-Butanone (Methyl Ethyl Ketone) | 50                 | 150                   | Not Detected   | Not Detected      |
| Chloroform                       | 10                 | 50                    | Not Detected   | Not Detected      |
| 1,1,1-Trichloroethane            | 10                 | 55                    | Not Detected   | Not Detected      |
| Carbon Tetrachloride             | 10                 | 64                    | Not Detected   | Not Detected      |
| Benzene                          | 10                 | 32                    | 13             | 44                |
| 1,2-Dichloroethane               | 10                 | 41                    | Not Detected   | Not Detected      |
| Trichloroethene                  | 10                 | 55                    | Not Detected   | Not Detected      |
| 1,2-Dichloropropane              | 10                 | 47                    | Not Detected   | Not Detected      |
| Bromodichloromethane             | 10                 | 68                    | Not Detected   | Not Detected      |
| trans-1,3-Dichloropropene        | 10                 | 46                    | Not Detected   | Not Detected      |
| 4-Methyl-2-pentanone             | 50                 | 210                   | Not Detected   | Not Detected      |
| Toluene                          | 10                 | 38                    | 100            | 400               |
| cis-1,3-Dichloropropene          | 10                 | 46                    | Not Detected   | Not Detected      |
| 1,1,2-Trichloroethane            | 10                 | 55                    | Not Detected   | Not Detected      |
| Tetrachloroethene                | 10                 | 69                    | Not Detected   | Not Detected      |
| 2-Hexanone                       | 50                 | 210                   | Not Detected   | Not Detected      |
| Dibromochloromethane             | 10                 | 86                    | Not Detected   | Not Detected      |
| Chlorobenzene                    | 10                 | 47                    | Not Detected   | Not Detected      |
| Ethyl Benzene                    | 10                 | 44                    | Not Detected   | Not Detected      |
| m,p-Xylene                       | 10                 | 44                    | 34             | 150               |
| o-Xylene                         | 10                 | 44                    | 11             | 48                |
| Styrene                          | 10                 | 43                    | Not Detected   | Not Detected      |
| Bromoform                        | 10                 | 100                   | Not Detected   | Not Detected      |
| 1,1,2,2-Tetrachloroethane        | 10                 | 70                    | Not Detected   | Not Detected      |
| 1,3-Dichlorobenzene              | 10                 | 61                    | Not Detected   | Not Detected      |
| 1,4-Dichlorobenzene              | 10                 | 61                    | Not Detected   | Not Detected      |
| 1,2-Dichlorobenzene              | 10                 | 61                    | Not Detected   | Not Detected      |
| cis-1,2-Dichloroethene           | 10                 | 40                    | Not Detected   | Not Detected      |

000192

**AIR TOXICS LTD.**

SAMPLE NAME : 11002 a&amp;b

ID#: 9910316-08A/B

Modified VOST 5041A GC/MS Full Scan

|              |         |                     |          |
|--------------|---------|---------------------|----------|
| File Name:   | h110310 | Date of Collection: | 10/21/99 |
| Dil. Factor: | 1.00    | Date of Analysis:   | 11/3/99  |

## TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported

| Compound            | CAS Number | Match Quality | Amount (nG) |
|---------------------|------------|---------------|-------------|
| Hexane, 3-methyl-   | 589-34-4   | 87 %          | 120         |
| Heptane             | 142-82-5   | 64 %          | 340         |
| 3-Cyclohepten-1-one | 1121-64-8  | 83 %          | 310         |
| Hexanal             | 66-25-1    | 83 %          | 120         |
| Heptanal            | 111-71-7   | 50 %          | 84          |
| .alpha.-Pinene      | 80-56-8    | 96 %          | 550         |
| Camphene            | 79-92-5    | 80 %          | 680         |
| .beta.-Phellandrene | 555-10-2   | 87 %          | 120         |
| .beta.-Pinene       | 127-91-3   | 91 %          | 260         |
| Limonene            | 138-86-3   | 91 %          | 130         |

Container Type: VOST Tube

| Surrogates            | % Recovery | Method Limits |
|-----------------------|------------|---------------|
| Dibromofluoromethane  | 93         | 72-135        |
| 1,2-Dichloroethane-d4 | 90         | 69-137        |
| Toluene-d8            | 106        | 77-124        |
| 4-Bromofluorobenzene  | 111        | 70-133        |

000014

**AIR TOXICS LTD.**

SAMPLE NAME : 11024 a&amp;b

ID#: 9910332-02A/B

Modified VOST 5041A GC/MS Full Scan

|              |         |                     |          |
|--------------|---------|---------------------|----------|
| File Name:   | h110313 | Date of Collection: | 10/22/99 |
| Dil. Factor: | 1.00    | Date of Analysis:   | 11/3/99  |

| Compound                         | Det. Limit<br>(nG) | Det. Limit<br>(uG/m3) | Amount<br>(nG) | Amount<br>(uG/m3) |
|----------------------------------|--------------------|-----------------------|----------------|-------------------|
| Chloromethane                    | 10                 | 21                    | Not Detected   | Not Detected      |
| Vinyl Chloride                   | 10                 | 26                    | Not Detected   | Not Detected      |
| Bromomethane                     | 10                 | 39                    | Not Detected   | Not Detected      |
| Chloroethane                     | 10                 | 27                    | Not Detected   | Not Detected      |
| Freon 11                         | 10                 | 57                    | 14             | 78                |
| 1,1-Dichloroethene               | 10                 | 40                    | Not Detected   | Not Detected      |
| Carbon Disulfide                 | 10                 | 32                    | Not Detected   | Not Detected      |
| Acetone                          | 50                 | 120                   | 100            | 250               |
| Methylene Chloride               | 10                 | 35                    | Not Detected   | Not Detected      |
| trans-1,2-Dichloroethene         | 10                 | 40                    | Not Detected   | Not Detected      |
| 1,1-Dichloroethane               | 10                 | 41                    | Not Detected   | Not Detected      |
| Vinyl Acetate                    | 50                 | 180                   | Not Detected   | Not Detected      |
| 2-Butanone (Methyl Ethyl Ketone) | 50                 | 150                   | 34             | 100               |
| Chloroform                       | 10                 | 50                    | Not Detected   | Not Detected      |
| 1,1,1-Trichloroethane            | 10                 | 55                    | Not Detected   | Not Detected      |
| Carbon Tetrachloride             | 10                 | 64                    | Not Detected   | Not Detected      |
| Benzene                          | 10                 | 32                    | Not Detected   | Not Detected      |
| 1,2-Dichloroethane               | 10                 | 41                    | Not Detected   | Not Detected      |
| Trichloroethene                  | 10                 | 55                    | Not Detected   | Not Detected      |
| 1,2-Dichloropropane              | 10                 | 47                    | Not Detected   | Not Detected      |
| Bromodichloromethane             | 10                 | 68                    | Not Detected   | Not Detected      |
| trans-1,3-Dichloropropene        | 10                 | 46                    | Not Detected   | Not Detected      |
| 4-Methyl-2-pentanone             | 50                 | 210                   | Not Detected   | Not Detected      |
| Toluene                          | 10                 | 38                    | Not Detected   | Not Detected      |
| cis-1,3-Dichloropropene          | 10                 | 46                    | Not Detected   | Not Detected      |
| 1,1,2-Trichloroethane            | 10                 | 55                    | Not Detected   | Not Detected      |
| Tetrachloroethene                | 10                 | 69                    | Not Detected   | Not Detected      |
| 2-Hexanone                       | 50                 | 210                   | Not Detected   | Not Detected      |
| Dibromochloromethane             | 10                 | 86                    | Not Detected   | Not Detected      |
| Chlorobenzene                    | 10                 | 47                    | Not Detected   | Not Detected      |
| Ethyl Benzene                    | 10                 | 44                    | Not Detected   | Not Detected      |
| m,p-Xylene                       | 10                 | 44                    | Not Detected   | Not Detected      |
| o-Xylene                         | 10                 | 44                    | Not Detected   | Not Detected      |
| Styrene                          | 10                 | 43                    | Not Detected   | Not Detected      |
| Bromoform                        | 10                 | 100                   | Not Detected   | Not Detected      |
| 1,1,2,2-Tetrachloroethane        | 10                 | 70                    | Not Detected   | Not Detected      |
| 1,3-Dichlorobenzene              | 10                 | 61                    | Not Detected   | Not Detected      |
| 1,4-Dichlorobenzene              | 10                 | 61                    | Not Detected   | Not Detected      |
| 1,2-Dichlorobenzene              | 10                 | 61                    | Not Detected   | Not Detected      |
| cis-1,2-Dichloroethene           | 10                 | 40                    | Not Detected   | Not Detected      |

000015

**AIR TOXICS LTD.**

SAMPLE NAME : 11024 a&amp;b

ID#: 9910332-02A/B

Modified VOST 5041A GC/MS Full Scan

|              |         |                     |          |
|--------------|---------|---------------------|----------|
| File Name:   | h110313 | Date of Collection: | 10/22/99 |
| Dil. Factor: | 1.00    | Date of Analysis:   | 11/3/99  |

## TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported

| Compound                                    | CAS Number | Match Quality | Amount (nG) |
|---|------------|---------------|-------------|
| .alpha.-Pinene                              | 80-56-8    | 96 %          | 1700        |
| Camphene                                    | 79-92-5    | 91 %          | 4400        |
| .beta.-Pinene                               | 127-91-3   | 94 %          | 740         |
| Cyclohexene, 4-methylene-1-(1-methylethyl)- | 99-84-3    | 91 %          | 2300        |
| 3-Octanone                                  | 106-68-3   | 91 %          | 72          |
| Octanal                                     | 124-13-0   | 90 %          | 88          |
| Limonene                                    | 138-86-3   | 91 %          | 1100        |
| Cineole                                     | 470-82-6   | 91 %          | 220         |
| Nonanal                                     | 124-19-6   | 83 %          | 140         |
| 1,3-Benzodioxole, 5-(1-propenyl)-           | 120-58-1   | 95 %          | 280         |

Container Type: VOST Tube

| Surrogates            | % Recovery | Method Limits |
|-----------------------|------------|---------------|
| Dibromofluoromethane  | 95         | 72-135        |
| 1,2-Dichloroethane-d4 | 84         | 69-137        |
| Toluene-d8            | 105        | 77-124        |
| 4-Bromofluorobenzene  | 101        | 70-133        |

000086

**AIR TOXICS LTD.**

SAMPLE NAME : 11017 a&amp;b

ID#: 9910332-06A/B

Modified VOST 5041A GC/MS Full Scan

|              |         |                     |          |
|--------------|---------|---------------------|----------|
| File Name:   | h110317 | Date of Collection: | 10/22/99 |
| Dil. Factor: | 1.00    | Date of Analysis:   | 11/3/99  |

| Compound                         | Det. Limit<br>(nG) | Det. Limit<br>(uG/m3) | Amount<br>(nG) | Amount<br>(uG/m3) |
|----------------------------------|--------------------|-----------------------|----------------|-------------------|
| Chloromethane                    | 10                 | 21                    | Not Detected   | Not Detected      |
| Vinyl Chloride                   | 10                 | 26                    | Not Detected   | Not Detected      |
| Bromomethane                     | 10                 | 39                    | Not Detected   | Not Detected      |
| Chloroethane                     | 10                 | 27                    | Not Detected   | Not Detected      |
| Freon 11                         | 10                 | 57                    | 27             | 150               |
| 1,1-Dichloroethene               | 10                 | 40                    | Not Detected   | Not Detected      |
| Carbon Disulfide                 | 10                 | 32                    | Not Detected   | Not Detected      |
| Acetone                          | 50                 | 120                   | 94             | 230               |
| Methylene Chloride               | 10                 | 35                    | Not Detected   | Not Detected      |
| trans-1,2-Dichloroethene         | 10                 | 40                    | Not Detected   | Not Detected      |
| 1,1-Dichloroethane               | 10                 | 41                    | Not Detected   | Not Detected      |
| Vinyl Acetate                    | 50                 | 180                   | Not Detected   | Not Detected      |
| 2-Butanone (Methyl Ethyl Ketone) | 50                 | 150                   | 57             | 170               |
| Chloroform                       | 10                 | 50                    | Not Detected   | Not Detected      |
| 1,1,1-Trichloroethane            | 10                 | 55                    | Not Detected   | Not Detected      |
| Carbon Tetrachloride             | 10                 | 64                    | Not Detected   | Not Detected      |
| Benzene                          | 10                 | 32                    | Not Detected   | Not Detected      |
| 1,2-Dichloroethane               | 10                 | 41                    | Not Detected   | Not Detected      |
| Trichloroethene                  | 10                 | 55                    | Not Detected   | Not Detected      |
| 1,2-Dichloropropane              | 10                 | 47                    | Not Detected   | Not Detected      |
| Bromodichloromethane             | 10                 | 68                    | Not Detected   | Not Detected      |
| trans-1,3-Dichloropropene        | 10                 | 46                    | Not Detected   | Not Detected      |
| 4-Methyl-2-pentanone             | 50                 | 210                   | Not Detected   | Not Detected      |
| Toluene                          | 10                 | 38                    | Not Detected   | Not Detected      |
| cis-1,3-Dichloropropene          | 10                 | 46                    | Not Detected   | Not Detected      |
| 1,1,2-Trichloroethane            | 10                 | 55                    | Not Detected   | Not Detected      |
| Tetrachloroethene                | 10                 | 69                    | 12             | 79                |
| 2-Hexanone                       | 50                 | 210                   | Not Detected   | Not Detected      |
| Dibromochloromethane             | 10                 | 86                    | Not Detected   | Not Detected      |
| Chlorobenzene                    | 10                 | 47                    | Not Detected   | Not Detected      |
| Ethyl Benzene                    | 10                 | 44                    | Not Detected   | Not Detected      |
| m,p-Xylene                       | 10                 | 44                    | Not Detected   | Not Detected      |
| o-Xylene                         | 10                 | 44                    | Not Detected   | Not Detected      |
| Styrene                          | 10                 | 43                    | Not Detected   | Not Detected      |
| Bromoform                        | 10                 | 100                   | Not Detected   | Not Detected      |
| 1,1,2,2-Tetrachloroethane        | 10                 | 70                    | Not Detected   | Not Detected      |
| 1,3-Dichlorobenzene              | 10                 | 61                    | Not Detected   | Not Detected      |
| 1,4-Dichlorobenzene              | 10                 | 61                    | Not Detected   | Not Detected      |
| 1,2-Dichlorobenzene              | 10                 | 61                    | Not Detected   | Not Detected      |
| cis-1,2-Dichloroethene           | 10                 | 40                    | Not Detected   | Not Detected      |

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**AIR TOXICS LTD.**

SAMPLE NAME : 11017 a&amp;b

ID#: 9910332-06A/B

Modified VOST 5041A GC/MS Full Scan

|              |         |                     |          |
|--------------|---------|---------------------|----------|
| File Name:   | h110317 | Date of Collection: | 10/22/99 |
| Dil. Factor: | 1.00    | Date of Analysis:   | 11/3/99  |

## TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported

| Compound                         | CAS Number | Match Quality | Amount (nG) |
|----------------------------------|------------|---------------|-------------|
| Propane, 1,1,1,3,3,3-hexafluoro- | 690-39-1   | 56 %          | 120         |
| 3-Cyclohepten-1-one              | 1121-64-8  | 91 %          | 210         |
| .alpha.-Pinene                   | 80-56-8    | 95 %          | 78          |
| Camphene                         | 79-92-5    | 93 %          | 53          |
| 3-Carene                         | 13466-78-9 | 95 %          | 55          |
| Octanal                          | 124-13-0   | 90 %          | 110         |
| Nonanal                          | 124-19-6   | 83 %          | 63          |

Container Type: VOST Tube

| Surrogates            | % Recovery | Method Limits |
|-----------------------|------------|---------------|
| Dibromofluoromethane  | 89         | 72-135        |
| 1,2-Dichloroethane-d4 | 78         | 69-137        |
| Toluene-d8            | 108        | 77-124        |
| 4-Bromofluorobenzene  | 106        | 70-133        |

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**AIR TOXICS LTD.**

SAMPLE NAME : 11110 a&amp;b

ID#: 9910332-08A/B

Modified VOST 5041A GC/MS Full Scan

|              |         |                     |          |
|--------------|---------|---------------------|----------|
| File Name:   | h110319 | Date of Collection: | 10/22/99 |
| Dil. Factor: | 1.00    | Date of Analysis:   | 11/3/99  |

| Compound                         | Det. Limit<br>(nG) | Det. Limit<br>(uG/m3) | Amount<br>(nG) | Amount<br>(uG/m3) |
|----------------------------------|--------------------|-----------------------|----------------|-------------------|
| Chloromethane                    | 10                 | 21                    | 59             | 120               |
| Vinyl Chloride                   | 10                 | 26                    | Not Detected   | Not Detected      |
| Bromomethane                     | 10                 | 39                    | Not Detected   | Not Detected      |
| Chloroethane                     | 10                 | 27                    | Not Detected   | Not Detected      |
| Freon 11                         | 10                 | 57                    | 23             | 130               |
| 1,1-Dichloroethene               | 10                 | 40                    | Not Detected   | Not Detected      |
| Carbon Disulfide                 | 10                 | 32                    | 11             | 35                |
| Acetone                          | 50                 | 120                   | 130            | 300               |
| Methylene Chloride               | 10                 | 35                    | Not Detected   | Not Detected      |
| trans-1,2-Dichloroethene         | 10                 | 40                    | Not Detected   | Not Detected      |
| 1,1-Dichloroethane               | 10                 | 41                    | Not Detected   | Not Detected      |
| Vinyl Acetate                    | 50                 | 180                   | Not Detected   | Not Detected      |
| 2-Butanone (Methyl Ethyl Ketone) | 50                 | 150                   | 63             | 190               |
| Chloroform                       | 10                 | 50                    | Not Detected   | Not Detected      |
| 1,1,1-Trichloroethane            | 10                 | 55                    | Not Detected   | Not Detected      |
| Carbon Tetrachloride             | 10                 | 64                    | Not Detected   | Not Detected      |
| Benzene                          | 10                 | 32                    | 22             | 72                |
| 1,2-Dichloroethane               | 10                 | 41                    | Not Detected   | Not Detected      |
| Trichloroethene                  | 10                 | 55                    | Not Detected   | Not Detected      |
| 1,2-Dichloropropane              | 10                 | 47                    | Not Detected   | Not Detected      |
| Bromodichloromethane             | 10                 | 68                    | Not Detected   | Not Detected      |
| trans-1,3-Dichloropropene        | 10                 | 46                    | Not Detected   | Not Detected      |
| 4-Methyl-2-pentanone             | 50                 | 210                   | Not Detected   | Not Detected      |
| Toluene                          | 10                 | 38                    | 18             | 68                |
| cis-1,3-Dichloropropene          | 10                 | 46                    | Not Detected   | Not Detected      |
| 1,1,2-Trichloroethane            | 10                 | 55                    | Not Detected   | Not Detected      |
| Tetrachloroethene                | 10                 | 69                    | 10             | 72                |
| 2-Hexanone                       | 50                 | 210                   | Not Detected   | Not Detected      |
| Dibromochloromethane             | 10                 | 86                    | Not Detected   | Not Detected      |
| Chlorobenzene                    | 10                 | 47                    | Not Detected   | Not Detected      |
| Ethyl Benzene                    | 10                 | 44                    | Not Detected   | Not Detected      |
| m,p-Xylene                       | 10                 | 44                    | Not Detected   | Not Detected      |
| o-Xylene                         | 10                 | 44                    | Not Detected   | Not Detected      |
| Styrene                          | 10                 | 43                    | Not Detected   | Not Detected      |
| Bromoform                        | 10                 | 100                   | Not Detected   | Not Detected      |
| 1,1,2,2-Tetrachloroethane        | 10                 | 70                    | Not Detected   | Not Detected      |
| 1,3-Dichlorobenzene              | 10                 | 61                    | Not Detected   | Not Detected      |
| 1,4-Dichlorobenzene              | 10                 | 61                    | Not Detected   | Not Detected      |
| 1,2-Dichlorobenzene              | 10                 | 61                    | Not Detected   | Not Detected      |
| cis-1,2-Dichloroethene           | 10                 | 40                    | Not Detected   | Not Detected      |

000130

**AIR TOXICS LTD.**

SAMPLE NAME : 11110 a&amp;b

ID#: 9910332-08A/B

Modified VOST 5041A GC/MS Full Scan

|                     |                |                                     |
|---------------------|----------------|-------------------------------------|
| <b>File Name:</b>   | <b>h110319</b> | <b>Date of Collection:</b> 10/22/99 |
| <b>Dil. Factor:</b> | <b>1.00</b>    | <b>Date of Analysis:</b> 11/3/99    |

## TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported

| Compound        | CAS Number | Match Quality | Amount (nG) |
|-----------------|------------|---------------|-------------|
| 3-Butenoic acid | 625-38-7   | 74 %          | 58          |
| Octanal         | 124-13-0   | 78 %          | 76          |
| Nonanal         | 124-19-6   | 83 %          | 97          |

Container Type: VOST Tube

| Surrogates            | % Recovery | Method Limits |
|-----------------------|------------|---------------|
| Dibromofluoromethane  | 89         | 72-135        |
| 1,2-Dichloroethane-d4 | 80         | 69-137        |
| Toluene-d8            | 104        | 77-124        |
| 4-Bromofluorobenzene  | 103        | 70-133        |

**AIR TOXICS LTD.**

SAMPLE NAME : 11214 a&amp;b

ID#: 9910376-02A/B

Modified VOST 5041A GC/MS Full Scan

|              |         |                     |          |
|--------------|---------|---------------------|----------|
| File Name:   | h110407 | Date of Collection: | 10/25/99 |
| Dil. Factor: | 1.00    | Date of Analysis:   | 11/4/99  |

| Compound                         | Det. Limit (nG) | Amount (nG)  |
|----------------------------------|-----------------|--------------|
| Chloromethane                    | 10              | Not Detected |
| Vinyl Chloride                   | 10              | Not Detected |
| Bromomethane                     | 10              | Not Detected |
| Chloroethane                     | 10              | Not Detected |
| Freon 11                         | 10              | 17           |
| 1,1-Dichloroethene               | 10              | Not Detected |
| Carbon Disulfide                 | 10              | 10           |
| Acetone                          | 50              | Not Detected |
| Methylene Chloride               | 10              | Not Detected |
| trans-1,2-Dichloroethene         | 10              | Not Detected |
| 1,1-Dichloroethane               | 10              | Not Detected |
| Vinyl Acetate                    | 50              | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 50              | Not Detected |
| Chloroform                       | 10              | Not Detected |
| 1,1,1-Trichloroethane            | 10              | Not Detected |
| Carbon Tetrachloride             | 10              | Not Detected |
| Benzene                          | 10              | Not Detected |
| 1,2-Dichloroethane               | 10              | Not Detected |
| Trichloroethene                  | 10              | Not Detected |
| 1,2-Dichloropropane              | 10              | Not Detected |
| Bromodichloromethane             | 10              | Not Detected |
| trans-1,3-Dichloropropene        | 10              | Not Detected |
| 4-Methyl-2-pentanone             | 50              | Not Detected |
| Toluene                          | 10              | Not Detected |
| cis-1,3-Dichloropropene          | 10              | Not Detected |
| 1,1,2-Trichloroethane            | 10              | Not Detected |
| Tetrachloroethene                | 10              | 10           |
| 2-Hexanone                       | 50              | Not Detected |
| Dibromochloromethane             | 10              | Not Detected |
| Chlorobenzene                    | 10              | Not Detected |
| Ethyl Benzene                    | 10              | Not Detected |
| m,p-Xylene                       | 10              | Not Detected |
| o-Xylene                         | 10              | Not Detected |
| Styrene                          | 10              | Not Detected |
| Bromoform                        | 10              | Not Detected |
| 1,1,2,2-Tetrachloroethane        | 10              | Not Detected |
| 1,3-Dichlorobenzene              | 10              | Not Detected |
| 1,4-Dichlorobenzene              | 10              | Not Detected |
| 1,2-Dichlorobenzene              | 10              | Not Detected |
| cis-1,2-Dichloroethene           | 10              | Not Detected |

**TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported**

| Compound        | CAS Number | Match Quality | Amount (nG) |
|-----------------|------------|---------------|-------------|
| None Identified |            |               |             |

**AIR TOXICS LTD.**

SAMPLE NAME : 11214 a&amp;b

ID#: 9910376-02A/B

Modified VOST 5041A GC/MS Full Scan

|              |         |                     |          |
|--------------|---------|---------------------|----------|
| File Name:   | h110407 | Date of Collection: | 10/25/99 |
| Dil. Factor: | 1.00    | Date of Analysis:   | 11/4/99  |

## TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported

| Compound | CAS Number | Match Quality | Amount (nG) |
|----------|------------|---------------|-------------|
|----------|------------|---------------|-------------|

Container Type: VOST Tube

| Surrogates            | % Recovery | Method Limits |
|-----------------------|------------|---------------|
| Dibromofluoromethane  | 89         | 72-135        |
| 1,2-Dichloroethane-d4 | 72         | 69-137        |
| Toluene-d8            | 106        | 77-124        |
| 4-Bromofluorobenzene  | 111        | 70-133        |

000217

**AIR TOXICS LTD.**

SAMPLE NAME : 11006 a&amp;b

ID#: 9910316-09A/B

Modified VOST 5041A GC/MS Full Scan

|              |         |                     |          |
|--------------|---------|---------------------|----------|
| File Name:   | h110311 | Date of Collection: | 10/21/99 |
| Dil. Factor: | 1.00    | Date of Analysis:   | 11/3/99  |

| Compound                         | Det. Limit<br>(nG) | Det. Limit<br>(uG/m3) | Amount<br>(nG) | Amount<br>(uG/m3) |
|----------------------------------|--------------------|-----------------------|----------------|-------------------|
| Chloromethane                    | 10                 | 21                    | Not Detected   | Not Detected      |
| Vinyl Chloride                   | 10                 | 26                    | Not Detected   | Not Detected      |
| Bromomethane                     | 10                 | 39                    | Not Detected   | Not Detected      |
| Chloroethane                     | 10                 | 27                    | Not Detected   | Not Detected      |
| Freon 11                         | 10                 | 57                    | 12             | 67                |
| 1,1-Dichloroethene               | 10                 | 40                    | Not Detected   | Not Detected      |
| Carbon Disulfide                 | 10                 | 32                    | 16             | 51                |
| Acetone                          | 50                 | 120                   | 58             | 140               |
| Methylene Chloride               | 10                 | 35                    | Not Detected   | Not Detected      |
| trans-1,2-Dichloroethene         | 10                 | 40                    | Not Detected   | Not Detected      |
| 1,1-Dichloroethane               | 10                 | 41                    | Not Detected   | Not Detected      |
| Vinyl Acetate                    | 50                 | 180                   | Not Detected   | Not Detected      |
| 2-Butanone (Methyl Ethyl Ketone) | 50                 | 150                   | Not Detected   | Not Detected      |
| Chloroform                       | 10                 | 50                    | Not Detected   | Not Detected      |
| 1,1,1-Trichloroethane            | 10                 | 55                    | Not Detected   | Not Detected      |
| Carbon Tetrachloride             | 10                 | 64                    | Not Detected   | Not Detected      |
| Benzene                          | 10                 | 32                    | Not Detected   | Not Detected      |
| 1,2-Dichloroethane               | 10                 | 41                    | Not Detected   | Not Detected      |
| Trichloroethene                  | 10                 | 55                    | Not Detected   | Not Detected      |
| 1,2-Dichloropropane              | 10                 | 47                    | Not Detected   | Not Detected      |
| Bromodichloromethane             | 10                 | 68                    | Not Detected   | Not Detected      |
| trans-1,3-Dichloropropene        | 10                 | 46                    | Not Detected   | Not Detected      |
| 4-Methyl-2-pentanone             | 50                 | 210                   | Not Detected   | Not Detected      |
| Toluene                          | 10                 | 38                    | Not Detected   | Not Detected      |
| cis-1,3-Dichloropropene          | 10                 | 46                    | Not Detected   | Not Detected      |
| 1,1,2-Trichloroethane            | 10                 | 55                    | Not Detected   | Not Detected      |
| Tetrachloroethene                | 10                 | 69                    | Not Detected   | Not Detected      |
| 2-Hexanone                       | 50                 | 210                   | Not Detected   | Not Detected      |
| Dibromochloromethane             | 10                 | 86                    | Not Detected   | Not Detected      |
| Chlorobenzene                    | 10                 | 47                    | Not Detected   | Not Detected      |
| Ethyl Benzene                    | 10                 | 44                    | Not Detected   | Not Detected      |
| m,p-Xylene                       | 10                 | 44                    | 12             | 55                |
| o-Xylene                         | 10                 | 44                    | Not Detected   | Not Detected      |
| Styrene                          | 10                 | 43                    | Not Detected   | Not Detected      |
| Bromoform                        | 10                 | 100                   | Not Detected   | Not Detected      |
| 1,1,2,2-Tetrachloroethane        | 10                 | 70                    | Not Detected   | Not Detected      |
| 1,3-Dichlorobenzene              | 10                 | 61                    | Not Detected   | Not Detected      |
| 1,4-Dichlorobenzene              | 10                 | 61                    | Not Detected   | Not Detected      |
| 1,2-Dichlorobenzene              | 10                 | 61                    | Not Detected   | Not Detected      |
| cis-1,2-Dichloroethene           | 10                 | 40                    | Not Detected   | Not Detected      |

**AIR TOXICS LTD.**

SAMPLE NAME : 11006 a&amp;b

ID#: 9910316-09A/B

Modified VOST 5041A GC/MS Full Scan

|              |         |                     |          |
|--------------|---------|---------------------|----------|
| File Name:   | h110311 | Date of Collection: | 10/21/99 |
| Dil. Factor: | 1.00    | Date of Analysis:   | 11/3/99  |

## TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported

| Compound                   | CAS Number | Match Quality | Amount (nG) |
|----------------------------|------------|---------------|-------------|
| Methane, dichlorodifluoro- | 75-71-8    | 72 %          | 53          |
| Methane, chlorodifluoro-   | 75-45-6    | 74 %          | 45          |
| 3-Cyclohepten-1-one        | 1121-64-8  | 90 %          | 31          |
| Hexanal                    | 66-25-1    | 90 %          | 45          |
| Heptanal                   | 111-71-7   | 16 %          | 35          |
| Octanal                    | 124-13-0   | 86 %          | 90          |
| Nonanal                    | 124-19-6   | 83 %          | 83          |

Container Type: VOST Tube

| Surrogates            | % Recovery | Method Limits |
|-----------------------|------------|---------------|
| Dibromofluoromethane  | 95         | 72-135        |
| 1,2-Dichloroethane-d4 | 87         | 69-137        |
| Toluene-d8            | 104        | 77-124        |
| 4-Bromofluorobenzene  | 103        | 70-133        |

000061

**AIR TOXICS LTD.**

SAMPLE NAME : 11023 a&amp;b

ID#: 9910332-05A/B

Modified VOST 5041A GC/MS Full Scan

|              |         |                     |          |
|--------------|---------|---------------------|----------|
| File Name:   | h110316 | Date of Collection: | 10/22/99 |
| Dil. Factor: | 1.00    | Date of Analysis:   | 11/3/99  |

| Compound                         | Det. Limit<br>(nG) | Det. Limit<br>(uG/m3) | Amount<br>(nG) | Amount<br>(uG/m3) |
|----------------------------------|--------------------|-----------------------|----------------|-------------------|
| Chloromethane                    | 10                 | 21                    | Not Detected   | Not Detected      |
| Vinyl Chloride                   | 10                 | 26                    | Not Detected   | Not Detected      |
| Bromomethane                     | 10                 | 39                    | Not Detected   | Not Detected      |
| Chloroethane                     | 10                 | 27                    | Not Detected   | Not Detected      |
| Freon 11                         | 10                 | 57                    | 18             | 100               |
| 1,1-Dichloroethene               | 10                 | 40                    | Not Detected   | Not Detected      |
| Carbon Disulfide                 | 10                 | 32                    | 23             | 72                |
| Acetone                          | 50                 | 120                   | 100            | 240               |
| Methylene Chloride               | 10                 | 35                    | Not Detected   | Not Detected      |
| trans-1,2-Dichloroethene         | 10                 | 40                    | Not Detected   | Not Detected      |
| 1,1-Dichloroethane               | 10                 | 41                    | Not Detected   | Not Detected      |
| Vinyl Acetate                    | 50                 | 180                   | Not Detected   | Not Detected      |
| 2-Butanone (Methyl Ethyl Ketone) | 50                 | 150                   | Not Detected   | Not Detected      |
| Chloroform                       | 10                 | 50                    | Not Detected   | Not Detected      |
| 1,1,1-Trichloroethane            | 10                 | 55                    | Not Detected   | Not Detected      |
| Carbon Tetrachloride             | 10                 | 64                    | Not Detected   | Not Detected      |
| Benzene                          | 10                 | 32                    | 10             | 34                |
| 1,2-Dichloroethane               | 10                 | 41                    | Not Detected   | Not Detected      |
| Trichloroethene                  | 10                 | 55                    | Not Detected   | Not Detected      |
| 1,2-Dichloropropane              | 10                 | 47                    | Not Detected   | Not Detected      |
| Bromodichloromethane             | 10                 | 68                    | Not Detected   | Not Detected      |
| trans-1,3-Dichloropropene        | 10                 | 46                    | Not Detected   | Not Detected      |
| 4-Methyl-2-pentanone             | 50                 | 210                   | Not Detected   | Not Detected      |
| Toluene                          | 10                 | 38                    | 19             | 72                |
| cis-1,3-Dichloropropene          | 10                 | 46                    | Not Detected   | Not Detected      |
| 1,1,2-Trichloroethane            | 10                 | 55                    | Not Detected   | Not Detected      |
| Tetrachloroethene                | 10                 | 69                    | 690            | 4800              |
| 2-Hexanone                       | 50                 | 210                   | Not Detected   | Not Detected      |
| Dibromochloromethane             | 10                 | 86                    | Not Detected   | Not Detected      |
| Chlorobenzene                    | 10                 | 47                    | Not Detected   | Not Detected      |
| Ethyl Benzene                    | 10                 | 44                    | 14             | 61                |
| m,p-Xylene                       | 10                 | 44                    | Not Detected   | Not Detected      |
| o-Xylene                         | 10                 | 44                    | Not Detected   | Not Detected      |
| Styrene                          | 10                 | 43                    | Not Detected   | Not Detected      |
| Bromoform                        | 10                 | 100                   | Not Detected   | Not Detected      |
| 1,1,2,2-Tetrachloroethane        | 10                 | 70                    | Not Detected   | Not Detected      |
| 1,3-Dichlorobenzene              | 10                 | 61                    | Not Detected   | Not Detected      |
| 1,4-Dichlorobenzene              | 10                 | 61                    | Not Detected   | Not Detected      |
| 1,2-Dichlorobenzene              | 10                 | 61                    | Not Detected   | Not Detected      |
| cis-1,2-Dichloroethene           | 10                 | 40                    | Not Detected   | Not Detected      |

000062

**AIR TOXICS LTD.**

SAMPLE NAME : 11023 a&amp;b

ID#: 9910332-05A/B

Modified VOST 5041A GC/MS Full Scan

|              |         |                     |          |
|--------------|---------|---------------------|----------|
| File Name:   | h110316 | Date of Collection: | 10/22/99 |
| Dil. Factor: | 1.00    | Date of Analysis:   | 11/3/99  |

**TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported**

| Compound                                 | CAS Number | Match Quality | Amount (nG) |
|--|------------|---------------|-------------|
| Unknown                                  | NA         | NA            | 380         |
| Methane, dichlorodifluoro-               | 75-71-8    | 43 %          | 380         |
| Ethane, 1,2-dichloro-1,1,2,2-tetrafluoro | 76-14-2    | 90 %          | 1100        |
| 3-Cyclohepten-1-one                      | 1121-64-8  | 91 %          | 1500        |
| .alpha.-Pinene                           | 80-56-8    | 95 %          | 120         |
| Camphene                                 | 79-92-5    | 91 %          | 180         |
| Octanal                                  | 124-13-0   | 90 %          | 88          |
| Nonanal                                  | 124-19-6   | 83 %          | 170         |

Container Type: VOST Tube

| Surrogates            | % Recovery | Method Limits |
|-----------------------|------------|---------------|
| Dibromofluoromethane  | 91         | 72-135        |
| 1,2-Dichloroethane-d4 | 79         | 69-137        |
| Toluene-d8            | 111        | 77-124        |
| 4-Bromofluorobenzene  | 101        | 70-133        |

# AIR TOXICS LTD.

SAMPLE NAME : 11013 a&b

ID#: 9910332-07A/B

Modified VOST 5041A GC/MS Full Scan

|              |         |                     |          |
|--------------|---------|---------------------|----------|
| File Name:   | h110318 | Date of Collection: | 10/22/99 |
| Dil. Factor: | 1.00    | Date of Analysis:   | 11/3/99  |

| Compound                         | Det. Limit<br>(nG) | Det. Limit<br>(uG/m3) | Amount<br>(nG) | Amount<br>(uG/m3) |
|----------------------------------|--------------------|-----------------------|----------------|-------------------|
| Chloromethane                    | 10                 | 21                    | Not Detected   | Not Detected      |
| Vinyl Chloride                   | 10                 | 26                    | Not Detected   | Not Detected      |
| Bromomethane                     | 10                 | 39                    | Not Detected   | Not Detected      |
| Chloroethane                     | 10                 | 27                    | Not Detected   | Not Detected      |
| Freon 11                         | 10                 | 57                    | 18             | 100               |
| 1,1-Dichloroethene               | 10                 | 40                    | Not Detected   | Not Detected      |
| Carbon Disulfide                 | 10                 | 32                    | 26             | 83                |
| Acetone                          | 50                 | 120                   | Not Detected   | Not Detected      |
| Methylene Chloride               | 10                 | 35                    | Not Detected   | Not Detected      |
| trans-1,2-Dichloroethene         | 10                 | 40                    | Not Detected   | Not Detected      |
| 1,1-Dichloroethane               | 10                 | 41                    | Not Detected   | Not Detected      |
| Vinyl Acetate                    | 50                 | 180                   | Not Detected   | Not Detected      |
| 2-Butanone (Methyl Ethyl Ketone) | 50                 | 150                   | Not Detected   | Not Detected      |
| Chloroform                       | 10                 | 50                    | Not Detected   | Not Detected      |
| 1,1,1-Trichloroethane            | 10                 | 55                    | Not Detected   | Not Detected      |
| Carbon Tetrachloride             | 10                 | 64                    | Not Detected   | Not Detected      |
| Benzene                          | 10                 | 32                    | Not Detected   | Not Detected      |
| 1,2-Dichloroethane               | 10                 | 41                    | Not Detected   | Not Detected      |
| Trichloroethene                  | 10                 | 55                    | Not Detected   | Not Detected      |
| 1,2-Dichloropropane              | 10                 | 47                    | Not Detected   | Not Detected      |
| Bromodichloromethane             | 10                 | 68                    | Not Detected   | Not Detected      |
| trans-1,3-Dichloropropene        | 10                 | 46                    | Not Detected   | Not Detected      |
| 4-Methyl-2-pentanone             | 50                 | 210                   | Not Detected   | Not Detected      |
| Toluene                          | 10                 | 38                    | 16             | 62                |
| cis-1,3-Dichloropropene          | 10                 | 46                    | Not Detected   | Not Detected      |
| 1,1,2-Trichloroethane            | 10                 | 55                    | Not Detected   | Not Detected      |
| Tetrachloroethene                | 10                 | 69                    | 530            | 3600              |
| 2-Hexanone                       | 50                 | 210                   | Not Detected   | Not Detected      |
| Dibromochloromethane             | 10                 | 86                    | Not Detected   | Not Detected      |
| Chlorobenzene                    | 10                 | 47                    | Not Detected   | Not Detected      |
| Ethyl Benzene                    | 10                 | 44                    | Not Detected   | Not Detected      |
| m,p-Xylene                       | 10                 | 44                    | Not Detected   | Not Detected      |
| o-Xylene                         | 10                 | 44                    | Not Detected   | Not Detected      |
| Styrene                          | 10                 | 43                    | Not Detected   | Not Detected      |
| Bromoform                        | 10                 | 100                   | Not Detected   | Not Detected      |
| 1,1,2,2-Tetrachloroethane        | 10                 | 70                    | Not Detected   | Not Detected      |
| 1,3-Dichlorobenzene              | 10                 | 61                    | Not Detected   | Not Detected      |
| 1,4-Dichlorobenzene              | 10                 | 61                    | Not Detected   | Not Detected      |
| 1,2-Dichlorobenzene              | 10                 | 61                    | Not Detected   | Not Detected      |
| cis-1,2-Dichloroethene           | 10                 | 40                    | Not Detected   | Not Detected      |

000107

**AIR TOXICS LTD.**

SAMPLE NAME : 11013 a&amp;b

ID#: 9910332-07A/B

Modified VOST 5041A GC/MS Full Scan

|                     |                |                            |                 |
|---------------------|----------------|----------------------------|-----------------|
| <b>File Name:</b>   | <b>h110318</b> | <b>Date of Collection:</b> | <b>10/22/99</b> |
| <b>Dil. Factor:</b> | <b>1.00</b>    | <b>Date of Analysis:</b>   | <b>11/3/99</b>  |

**TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported**

| <b>Compound</b>                          | <b>CAS Number</b> | <b>Match Quality</b> | <b>Amount<br/>(nG)</b> |
|--|-------------------|----------------------|------------------------|
| Ethane, 1,2-dichloro-1,1,2,2-tetrafluoro | 76-14-2           | 58 %                 | 180                    |
| 3-Carene                                 | 13466-78-9        | 58 %                 | 120                    |
| .alpha.-Pinene                           | 80-56-8           | 96 %                 | 2700                   |
| Camphene                                 | 79-92-5           | 91 %                 | 5300                   |
| Bicyclo[3.1.0]hexane, 4-methylene-1-(1-m | 3387-41-5         | 90 %                 | 720                    |
| Cyclohexene, 4-methylene-1-(1-methylethy | 99-84-3           | 91 %                 | 2400                   |
| Bicyclo[3.1.0]hex-2-ene, 2-methyl-5-(1-m | 2867-05-2         | 64 %                 | 87                     |
| Octanal                                  | 124-13-0          | 90 %                 | 75                     |
| Limonene                                 | 138-86-3          | 94 %                 | 1000                   |
| Nonanal                                  | 124-19-6          | 83 %                 | 88                     |

Container Type: VOST Tube

| <b>Surrogates</b>     | <b>% Recovery</b> | <b>Method<br/>Limits</b> |
|-----------------------|-------------------|--------------------------|
| Dibromofluoromethane  | 87                | 72-135                   |
| 1,2-Dichloroethane-d4 | 75                | 69-137                   |
| Toluene-d8            | 108               | 77-124                   |
| 4-Bromofluorobenzene  | 92                | 70-133                   |

**AIR TOXICS LTD.**

SAMPLE NAME : 11008 a&amp;b

ID#: 9910376-03A/B

Modified VOST 5041A GC/MS Full Scan

|              |         |                     |          |
|--------------|---------|---------------------|----------|
| File Name:   | h110406 | Date of Collection: | 10/25/99 |
| Dil. Factor: | 1.00    | Date of Analysis:   | 11/4/99  |

| Compound                         | Det. Limit (nG) | Amount (nG)  |
|----------------------------------|-----------------|--------------|
| Chloromethane                    | 10              | Not Detected |
| Vinyl Chloride                   | 10              | Not Detected |
| Bromomethane                     | 10              | Not Detected |
| Chloroethane                     | 10              | Not Detected |
| Freon 11                         | 10              | 13           |
| 1,1-Dichloroethene               | 10              | Not Detected |
| Carbon Disulfide                 | 10              | Not Detected |
| Acetone                          | 50              | Not Detected |
| Methylene Chloride               | 10              | Not Detected |
| trans-1,2-Dichloroethene         | 10              | Not Detected |
| 1,1-Dichloroethane               | 10              | Not Detected |
| Vinyl Acetate                    | 50              | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 50              | Not Detected |
| Chloroform                       | 10              | 14           |
| 1,1,1-Trichloroethane            | 10              | Not Detected |
| Carbon Tetrachloride             | 10              | Not Detected |
| Benzene                          | 10              | 47           |
| 1,2-Dichloroethane               | 10              | Not Detected |
| Trichloroethene                  | 10              | Not Detected |
| 1,2-Dichloropropane              | 10              | Not Detected |
| Bromodichloromethane             | 10              | Not Detected |
| trans-1,3-Dichloropropene        | 10              | Not Detected |
| 4-Methyl-2-pentanone             | 50              | Not Detected |
| Toluene                          | 10              | 98           |
| cis-1,3-Dichloropropene          | 10              | Not Detected |
| 1,1,2-Trichloroethane            | 10              | Not Detected |
| Tetrachloroethene                | 10              | Not Detected |
| 2-Hexanone                       | 50              | Not Detected |
| Dibromochloromethane             | 10              | Not Detected |
| Chlorobenzene                    | 10              | Not Detected |
| Ethyl Benzene                    | 10              | 32           |
| m,p-Xylene                       | 10              | 50           |
| o-Xylene                         | 10              | 18           |
| Styrene                          | 10              | Not Detected |
| Bromoform                        | 10              | Not Detected |
| 1,1,2,2-Tetrachloroethane        | 10              | Not Detected |
| 1,3-Dichlorobenzene              | 10              | Not Detected |
| 1,4-Dichlorobenzene              | 10              | Not Detected |
| 1,2-Dichlorobenzene              | 10              | Not Detected |
| cis-1,2-Dichloroethene           | 10              | Not Detected |

**TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported**

| Compound | CAS Number | Match Quality | Amount (nG) |
|----------|------------|---------------|-------------|
| Butane   | 106-97-8   | 72 %          | 98          |
| Unknown  | NA         | NA            | 77          |

**AIR TOXICS LTD.**

SAMPLE NAME : 11008 a&amp;b

ID#: 9910376-03A/B

Modified VOST 5041A GC/MS Full Scan

|                     |         |                            |          |
|---------------------|---------|----------------------------|----------|
| <b>File Name:</b>   | ht10406 | <b>Date of Collection:</b> | 10/25/99 |
| <b>Dil. Factor:</b> | 1.00    | <b>Date of Analysis:</b>   | 11/4/99  |

| TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported |            |               |             |
|--|------------|---------------|-------------|
| Compound   | CAS Number | Match Quality | Amount (nG) |
| Pentane  | 109-66-0   | 59 %          | 91          |
| Heptane  | 142-82-5   | 59 %          | 110         |
| Heptane, 2-methyl-                                 | 592-27-8   | 86 %          | 55          |
| Nonane   | 111-84-2   | 83 %          | 57          |

Container Type: VOST Tube

| Surrogates            | % Recovery | Method Limits |
|-----------------------|------------|---------------|
| Dibromofluoromethane  | 90         | 72-135        |
| 1,2-Dichloroethane-d4 | 74         | 69-137        |
| Toluene-d8            | 109        | 77-124        |
| 4-Bromofluorobenzene  | 115        | 70-133        |

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# AIR TOXICS LTD.

SAMPLE NAME : 11106 a&b

ID#: 9910316-04A/B

Modified VOST 5041A GC/MS Full Scan

|              |         |                     |          |
|--------------|---------|---------------------|----------|
| File Name:   | h110214 | Date of Collection: | 10/21/99 |
| Dil. Factor: | 1.00    | Date of Analysis:   | 11/2/99  |

| Compound                         | Det. Limit<br>(nG) | Det. Limit<br>(uG/m3) | Amount<br>(nG) | Amount<br>(uG/m3) |
|----------------------------------|--------------------|-----------------------|----------------|-------------------|
| Chloromethane                    | 10                 | 21                    | Not Detected   | Not Detected      |
| Vinyl Chloride                   | 10                 | 26                    | Not Detected   | Not Detected      |
| Bromomethane                     | 10                 | 39                    | Not Detected   | Not Detected      |
| Chloroethane                     | 10                 | 27                    | Not Detected   | Not Detected      |
| Freon 11                         | 10                 | 57                    | 14             | 82                |
| 1,1-Dichloroethene               | 10                 | 40                    | Not Detected   | Not Detected      |
| Carbon Disulfide                 | 10                 | 32                    | Not Detected   | Not Detected      |
| Acetone                          | 50                 | 120                   | Not Detected   | Not Detected      |
| Methylene Chloride               | 10                 | 35                    | Not Detected   | Not Detected      |
| trans-1,2-Dichloroethene         | 10                 | 40                    | Not Detected   | Not Detected      |
| 1,1-Dichloroethane               | 10                 | 41                    | Not Detected   | Not Detected      |
| Vinyl Acetate                    | 50                 | 180                   | Not Detected   | Not Detected      |
| 2-Butanone (Methyl Ethyl Ketone) | 50                 | 150                   | Not Detected   | Not Detected      |
| Chloroform                       | 10                 | 50                    | Not Detected   | Not Detected      |
| 1,1,1-Trichloroethane            | 10                 | 55                    | Not Detected   | Not Detected      |
| Carbon Tetrachloride             | 10                 | 64                    | Not Detected   | Not Detected      |
| Benzene                          | 10                 | 32                    | Not Detected   | Not Detected      |
| 1,2-Dichloroethane               | 10                 | 41                    | Not Detected   | Not Detected      |
| Trichloroethene                  | 10                 | 55                    | Not Detected   | Not Detected      |
| 1,2-Dichloropropane              | 10                 | 47                    | Not Detected   | Not Detected      |
| Bromodichloromethane             | 10                 | 68                    | Not Detected   | Not Detected      |
| trans-1,3-Dichloropropene        | 10                 | 46                    | Not Detected   | Not Detected      |
| 4-Methyl-2-pentanone             | 50                 | 210                   | Not Detected   | Not Detected      |
| Toluene                          | 10                 | 38                    | Not Detected   | Not Detected      |
| cis-1,3-Dichloropropene          | 10                 | 46                    | Not Detected   | Not Detected      |
| 1,1,2-Trichloroethane            | 10                 | 55                    | Not Detected   | Not Detected      |
| Tetrachloroethene                | 10                 | 69                    | Not Detected   | Not Detected      |
| 2-Hexanone                       | 50                 | 210                   | Not Detected   | Not Detected      |
| Dibromochloromethane             | 10                 | 86                    | Not Detected   | Not Detected      |
| Chlorobenzene                    | 10                 | 47                    | Not Detected   | Not Detected      |
| Ethyl Benzene                    | 10                 | 44                    | Not Detected   | Not Detected      |
| m,p-Xylene                       | 10                 | 44                    | Not Detected   | Not Detected      |
| o-Xylene                         | 10                 | 44                    | Not Detected   | Not Detected      |
| Styrene                          | 10                 | 43                    | Not Detected   | Not Detected      |
| Bromoform                        | 10                 | 100                   | Not Detected   | Not Detected      |
| 1,1,2,2-Tetrachloroethane        | 10                 | 70                    | Not Detected   | Not Detected      |
| 1,3-Dichlorobenzene              | 10                 | 61                    | Not Detected   | Not Detected      |
| 1,4-Dichlorobenzene              | 10                 | 61                    | Not Detected   | Not Detected      |
| 1,2-Dichlorobenzene              | 10                 | 61                    | Not Detected   | Not Detected      |
| cis-1,2-Dichloroethene           | 10                 | 40                    | Not Detected   | Not Detected      |

**AIR TOXICS LTD.**

SAMPLE NAME : 11106 a&amp;b

ID#: 9910316-04A/B

Modified VOST 5041A GC/MS Full Scan

|                     |         |                            |          |
|---------------------|---------|----------------------------|----------|
| <b>File Name:</b>   | h110214 | <b>Date of Collection:</b> | 10/21/99 |
| <b>Dil. Factor:</b> | 1.00    | <b>Date of Analysis:</b>   | 11/2/99  |

**TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported**

| <b>Compound</b>            | <b>CAS Number</b> | <b>Match Quality</b> | <b>Amount<br/>(nG)</b> |
|----------------------------|-------------------|----------------------|------------------------|
| Methane, dichlorodifluoro- | 75-71-8           | 83 %                 | 31                     |
| Octanal                    | 124-13-0          | 90 %                 | 71                     |
| Nonanal                    | 124-19-6          | 83 %                 | 73                     |

Container Type: VOST Tube

| <b>Surrogates</b>     | <b>% Recovery</b> | <b>Method<br/>Limits</b> |
|-----------------------|-------------------|--------------------------|
| Dibromofluoromethane  | 94                | 72-135                   |
| 1,2-Dichloroethane-d4 | 87                | 69-137                   |
| Toluene-d8            | 98                | 77-124                   |
| 4-Bromofluorobenzene  | 108               | 70-133                   |

00003

**AIR TOXICS LTD.**

SAMPLE NAME : 11218 a&amp;b

ID#: 9910432-03A/B

Modified VOST 5041A GC/MS Full Scan

|              |         |                     |          |
|--------------|---------|---------------------|----------|
| File Name:   | n110517 | Date of Collection: | 10/27/99 |
| Dil. Factor: | 1.00    | Date of Analysis:   | 11/5/99  |

| Compound                         | Det. Limit (nG) | Amount (nG)  |
|----------------------------------|-----------------|--------------|
| Chloromethane                    | 10              | Not Detected |
| Vinyl Chloride                   | 10              | Not Detected |
| Bromomethane                     | 10              | Not Detected |
| Chloroethane                     | 10              | Not Detected |
| Freon 11                         | 10              | 16           |
| 1,1-Dichloroethene               | 10              | Not Detected |
| Carbon Disulfide                 | 10              | 11           |
| Acetone                          | 50              | 120          |
| Methylene Chloride               | 10              | Not Detected |
| trans-1,2-Dichloroethene         | 10              | Not Detected |
| 1,1-Dichloroethane               | 10              | Not Detected |
| Vinyl Acetate                    | 50              | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 50              | Not Detected |
| Chloroform                       | 10              | 31           |
| 1,1,1-Trichloroethane            | 10              | 18           |
| Carbon Tetrachloride             | 10              | Not Detected |
| Benzene                          | 10              | Not Detected |
| 1,2-Dichloroethane               | 10              | Not Detected |
| Trichloroethene                  | 10              | Not Detected |
| 1,2-Dichloropropane              | 10              | Not Detected |
| Bromodichloromethane             | 10              | Not Detected |
| trans-1,3-Dichloropropene        | 10              | Not Detected |
| 4-Methyl-2-pentanone             | 50              | Not Detected |
| Toluene                          | 10              | Not Detected |
| cis-1,3-Dichloropropene          | 10              | Not Detected |
| 1,1,2-Trichloroethane            | 10              | Not Detected |
| Tetrachloroethene                | 10              | Not Detected |
| 2-Hexanone                       | 50              | Not Detected |
| Dibromochloromethane             | 10              | Not Detected |
| Chlorobenzene                    | 10              | Not Detected |
| Ethyl Benzene                    | 10              | Not Detected |
| m,p-Xylene                       | 10              | Not Detected |
| o-Xylene                         | 10              | Not Detected |
| Styrene                          | 10              | Not Detected |
| Bromoform                        | 10              | Not Detected |
| 1,1,2,2-Tetrachloroethane        | 10              | Not Detected |
| 1,3-Dichlorobenzene              | 10              | Not Detected |
| 1,4-Dichlorobenzene              | 10              | Not Detected |
| 1,2-Dichlorobenzene              | 10              | Not Detected |
| cis-1,2-Dichloroethene           | 10              | Not Detected |

**TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported**

| Compound        | CAS Number | Match Quality | Amount (nG) |
|-----------------|------------|---------------|-------------|
| 3-Butenoic acid | 625-38-7   | 83 %          | 27          |
| Pentane         | 109-66-0   | 53 %          | 52          |

**AIR TOXICS LTD.**

SAMPLE NAME : 11218 a&amp;b

ID#: 9910432-03A/B

Modified VOST 5041A GC/MS Full Scan

|                     |         |                            |          |
|---------------------|---------|----------------------------|----------|
| <b>File Name:</b>   | n110517 | <b>Date of Collection:</b> | 10/27/99 |
| <b>Dil. Factor:</b> | 1.00    | <b>Date of Analysis:</b>   | 11/5/99  |

## TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported

| Compound                          | CAS Number | Match Quality | Amount (nG) |
|-----------------------------------|------------|---------------|-------------|
| 1-Octene                          | 111-66-0   | 93 %          | 71          |
| Heptanal                          | 111-71-7   | 52 %          | 35          |
| Octanal                           | 124-13-0   | 47 %          | 100         |
| Nonanal                           | 124-19-6   | 56 %          | 240         |
| Dodecanal                         | 112-54-9   | 64 %          | 92          |
| 2-Undecanone                      | 112-12-9   | 91 %          | 38          |
| 1,3-Benzodioxole, 5-(1-propenyl)- | 120-58-1   | 95 %          | 65          |
| Tetradecane                       | 629-59-4   | 93 %          | 95          |

Container Type: VOST Tube

| Surrogates            | % Recovery | Method Limits |
|-----------------------|------------|---------------|
| Dibromofluoromethane  | 101        | 72-135        |
| 1,2-Dichloroethane-d4 | 106        | 69-137        |
| Toluene-d8            | 102        | 77-124        |
| 4-Bromofluorobenzene  | 96         | 70-133        |

000013

**AIR TOXICS LTD.**

SAMPLE NAME : 11206 a&amp;b

ID#: 9910432-02A/B

Modified VOST 5041A GC/MS Full Scan

|              |         |                              |
|--------------|---------|------------------------------|
| File Name:   | n110516 | Date of Collection: 10/27/99 |
| Dil. Factor: | 1.00    | Date of Analysis: 11/5/99    |

| Compound                         | Det. Limit (nG) | Amount (nG)  |
|----------------------------------|-----------------|--------------|
| Chloromethane                    | 10              | Not Detected |
| Vinyl Chloride                   | 10              | Not Detected |
| Bromomethane                     | 10              | Not Detected |
| Chloroethane                     | 10              | Not Detected |
| Freon 11                         | 10              | 20           |
| 1,1-Dichloroethene               | 10              | Not Detected |
| Carbon Disulfide                 | 10              | 22           |
| Acetone                          | 50              | Not Detected |
| Methylene Chloride               | 10              | Not Detected |
| trans-1,2-Dichloroethene         | 10              | Not Detected |
| 1,1-Dichloroethane               | 10              | Not Detected |
| Vinyl Acetate                    | 50              | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 50              | Not Detected |
| Chloroform                       | 10              | Not Detected |
| 1,1,1-Trichloroethane            | 10              | Not Detected |
| Carbon Tetrachloride             | 10              | Not Detected |
| Benzene                          | 10              | Not Detected |
| 1,2-Dichloroethane               | 10              | Not Detected |
| Trichloroethene                  | 10              | Not Detected |
| 1,2-Dichloropropane              | 10              | Not Detected |
| Bromodichloromethane             | 10              | Not Detected |
| trans-1,3-Dichloropropene        | 10              | Not Detected |
| 4-Methyl-2-pentanone             | 50              | Not Detected |
| Toluene                          | 10              | Not Detected |
| cis-1,3-Dichloropropene          | 10              | Not Detected |
| 1,1,2-Trichloroethane            | 10              | Not Detected |
| Tetrachloroethene                | 10              | Not Detected |
| 2-Hexanone                       | 50              | Not Detected |
| Dibromochloromethane             | 10              | Not Detected |
| Chlorobenzene                    | 10              | Not Detected |
| Ethyl Benzene                    | 10              | Not Detected |
| m,p-Xylene                       | 10              | Not Detected |
| o-Xylene                         | 10              | Not Detected |
| Styrene                          | 10              | Not Detected |
| Bromoform                        | 10              | Not Detected |
| 1,1,2,2-Tetrachloroethane        | 10              | Not Detected |
| 1,3-Dichlorobenzene              | 10              | Not Detected |
| 1,4-Dichlorobenzene              | 10              | Not Detected |
| 1,2-Dichlorobenzene              | 10              | Not Detected |
| cis-1,2-Dichloroethene           | 10              | Not Detected |

**TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported**

| Compound | CAS Number | Match Quality | Amount (nG) |
|----------|------------|---------------|-------------|
| Hexanal  | 66-25-1    | 72 %          | 47          |
| Heptanal | 111-71-7   | 43 %          | 76          |

**AIR TOXICS LTD.**

SAMPLE NAME : 11206 a&amp;b

ID#: 9910432-02A/B

Modified VOST 5041A GC/MS Full Scan

|              |         |                     |          |
|--------------|---------|---------------------|----------|
| File Name:   | n110516 | Date of Collection: | 10/27/99 |
| Dil. Factor: | 1.00    | Date of Analysis:   | 11/5/99  |

| TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported |            |               |             |
|--|------------|---------------|-------------|
| Compound   | CAS Number | Match Quality | Amount (nG) |
| Octanal  | 124-13-0   | 60 %          | 170         |
| Dodecane   | 112-40-3   | 90 %          | 74          |
| Nonanal  | 124-19-6   | 83 %          | 190         |
| Undecane   | 1120-21-4  | 83 %          | 31          |
| Dodecanal  | 112-54-9   | 72 %          | 55          |
| 1,3-Benzodioxole, 5-(1-propenyl)-                  | 120-58-1   | 95 %          | 100         |
| Tetradecane  | 629-59-4   | 93 %          | 51          |

Container Type: VOST Tube

| Surrogates            | % Recovery | Method Limits |
|-----------------------|------------|---------------|
| Dibromofluoromethane  | 100        | 72-135        |
| 1,2-Dichloroethane-d4 | 106        | 69-137        |
| Toluene-d8            | 109        | 77-124        |
| 4-Bromofluorobenzene  | 100        | 70-133        |

000077

**AIR TOXICS LTD.**

SAMPLE NAME : 11211 a&amp;b

ID#: 9910396-05A/B

Modified VOST 5041A GC/MS Full Scan

|                     |         |                            |          |
|---------------------|---------|----------------------------|----------|
| <b>File Name:</b>   | n110514 | <b>Date of Collection:</b> | 10/25/99 |
| <b>Dil. Factor:</b> | 1.00    | <b>Date of Analysis:</b>   | 11/5/99  |

| Compound                         | Det. Limit (nG) | Amount (nG)  |
|----------------------------------|-----------------|--------------|
| Chloromethane                    | 10              | Not Detected |
| Vinyl Chloride                   | 10              | Not Detected |
| Bromomethane                     | 10              | Not Detected |
| Chloroethane                     | 10              | Not Detected |
| Freon 11                         | 10              | 33           |
| 1,1-Dichloroethene               | 10              | Not Detected |
| Carbon Disulfide                 | 10              | 18           |
| Acetone                          | 50              | Not Detected |
| Methylene Chloride               | 10              | Not Detected |
| trans-1,2-Dichloroethene         | 10              | Not Detected |
| 1,1-Dichloroethane               | 10              | Not Detected |
| Vinyl Acetate                    | 50              | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 50              | Not Detected |
| Chloroform                       | 10              | Not Detected |
| 1,1,1-Trichloroethane            | 10              | Not Detected |
| Carbon Tetrachloride             | 10              | Not Detected |
| Benzene                          | 10              | Not Detected |
| 1,2-Dichloroethane               | 10              | Not Detected |
| Trichloroethene                  | 10              | Not Detected |
| 1,2-Dichloropropane              | 10              | Not Detected |
| Bromodichloromethane             | 10              | Not Detected |
| trans-1,3-Dichloropropene        | 10              | Not Detected |
| 4-Methyl-2-pentanone             | 50              | Not Detected |
| Toluene                          | 10              | Not Detected |
| cis-1,3-Dichloropropene          | 10              | Not Detected |
| 1,1,2-Trichloroethane            | 10              | Not Detected |
| Tetrachloroethene                | 10              | 120          |
| 2-Hexanone                       | 50              | Not Detected |
| Dibromochloromethane             | 10              | Not Detected |
| Chlorobenzene                    | 10              | Not Detected |
| Ethyl Benzene                    | 10              | Not Detected |
| m,p-Xylene                       | 10              | Not Detected |
| o-Xylene                         | 10              | Not Detected |
| Styrene                          | 10              | Not Detected |
| Bromoform                        | 10              | Not Detected |
| 1,1,2,2-Tetrachloroethane        | 10              | Not Detected |
| 1,3-Dichlorobenzene              | 10              | Not Detected |
| 1,4-Dichlorobenzene              | 10              | Not Detected |
| 1,2-Dichlorobenzene              | 10              | Not Detected |
| cis-1,2-Dichloroethene           | 10              | Not Detected |

**TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported**

| Compound                                 | CAS Number | Match Quality | Amount (nG) |
|--|------------|---------------|-------------|
| Methane, dichlorodifluoro-               | 75-71-8    | 83 %          | 190         |
| Ethane, 1,2-dichloro-1,1,2,2-tetrafluoro | 76-14-2    | 78 %          | 200         |

**AIR TOXICS LTD.**

SAMPLE NAME : 11211 a&amp;b

ID#: 9910396-05A/B

Modified VOST 5041A GC/MS Full Scan

|                     |         |                                     |
|---------------------|---------|-------------------------------------|
| <b>File Name:</b>   | n110514 | <b>Date of Collection:</b> 10/25/99 |
| <b>Dil. Factor:</b> | 1.00    | <b>Date of Analysis:</b> 11/5/99    |

**TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported**

| Compound                                   | CAS Number | Match Quality | Amount (nG) |
|--|------------|---------------|-------------|
| Cyclopentanol, 2-methyl-                   | 24070-77-7 | 53 %          | 81          |
| Nonanal                                    | 124-19-6   | 83 %          | 58          |
| Naphthalene, decahydro-4a-methyl-1-methyl- | 515-17-3   | 64 %          | 74          |
| Naphthalene, 1,2,3,5,6,8a-hexahydro-4,7-   | 483-76-1   | 90 %          | 54          |
| Unknown                                    | NA         | NA            | 250         |
| 1,3-Benzodioxole, 5-(1-propenyl)-          | 120-58-1   | 95 %          | 240         |

Container Type: VOST Tube

| Surrogates            | % Recovery | Method Limits |
|-----------------------|------------|---------------|
| Dibromofluoromethane  | 99         | 72-135        |
| 1,2-Dichloroethane-d4 | 102        | 69-137        |
| Toluene-d8            | 102        | 77-124        |
| 4-Bromofluorobenzene  | 98         | 70-133        |

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**AIR TOXICS LTD.**

SAMPLE NAME : 11225 a&amp;b

ID#: 9910396-04A/B

Modified VOST 5041A GC/MS Full Scan

|              |         |                     |          |
|--------------|---------|---------------------|----------|
| File Name:   | n110512 | Date of Collection: | 10/25/99 |
| Dil. Factor: | 1.00    | Date of Analysis:   | 11/5/99  |

| Compound                         | Det. Limit (nG) | Amount (nG)  |
|----------------------------------|-----------------|--------------|
| Chloromethane                    | 10              | Not Detected |
| Vinyl Chloride                   | 10              | Not Detected |
| Bromomethane                     | 10              | Not Detected |
| Chloroethane                     | 10              | Not Detected |
| Freon 11                         | 10              | 29           |
| 1,1-Dichloroethene               | 10              | Not Detected |
| Carbon Disulfide                 | 10              | 32           |
| Acetone                          | 50              | 82           |
| Methylene Chloride               | 10              | 13           |
| trans-1,2-Dichloroethene         | 10              | Not Detected |
| 1,1-Dichloroethane               | 10              | Not Detected |
| Vinyl Acetate                    | 50              | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 50              | Not Detected |
| Chloroform                       | 10              | Not Detected |
| 1,1,1-Trichloroethane            | 10              | Not Detected |
| Carbon Tetrachloride             | 10              | Not Detected |
| Benzene                          | 10              | Not Detected |
| 1,2-Dichloroethane               | 10              | Not Detected |
| Trichloroethene                  | 10              | Not Detected |
| 1,2-Dichloropropane              | 10              | Not Detected |
| Bromodichloromethane             | 10              | Not Detected |
| trans-1,3-Dichloropropene        | 10              | Not Detected |
| 4-Methyl-2-pentanone             | 50              | Not Detected |
| Toluene                          | 10              | 180          |
| cis-1,3-Dichloropropene          | 10              | Not Detected |
| 1,1,2-Trichloroethane            | 10              | Not Detected |
| Tetrachloroethene                | 10              | 620          |
| 2-Hexanone                       | 50              | Not Detected |
| Dibromochloromethane             | 10              | Not Detected |
| Chlorobenzene                    | 10              | Not Detected |
| Ethyl Benzene                    | 10              | Not Detected |
| m,p-Xylene                       | 10              | Not Detected |
| o-Xylene                         | 10              | Not Detected |
| Styrene                          | 10              | Not Detected |
| Bromoform                        | 10              | Not Detected |
| 1,1,2,2-Tetrachloroethane        | 10              | Not Detected |
| 1,3-Dichlorobenzene              | 10              | Not Detected |
| 1,4-Dichlorobenzene              | 10              | Not Detected |
| 1,2-Dichlorobenzene              | 10              | Not Detected |
| cis-1,2-Dichloroethene           | 10              | Not Detected |

**TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported**

| Compound                                 | CAS Number | Match Quality | Amount (nG) |
|--|------------|---------------|-------------|
| Methane, dichlorodifluoro-               | 75-71-8    | 83 %          | 320         |
| Ethane, 1,2-dichloro-1,1,2,2-tetrafluoro | 76-14-2    | 86 %          | 370         |

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**AIR TOXICS LTD.**

SAMPLE NAME : 11225 a&amp;b

ID#: 9910396-04A/B

Modified VOST 5041A GC/MS Full Scan

|                     |         |                            |          |
|---------------------|---------|----------------------------|----------|
| <b>File Name:</b>   | n110512 | <b>Date of Collection:</b> | 10/25/99 |
| <b>Dil. Factor:</b> | 1.00    | <b>Date of Analysis:</b>   | 11/5/99  |

| TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported |            |               |             |
|--|------------|---------------|-------------|
| Compound   | CAS Number | Match Quality | Amount (nG) |
| Butane, 1-methoxy-2-methyl-                        | 62016-48-2 | 83 %          | 250         |
| .alpha.-Pinene                                     | 80-56-8    | 86 %          | 15000       |
| Bicyclo[4.1.0]heptane, 7-(1-methylethyl)           | 53282-47-6 | 94 %          | 1400        |
| .beta.-Pinene                                      | 127-91-3   | 72 %          | 820         |
| 1,3,6-Heptatriene, 2,5,5-trimethyl-                | 29548-02-5 | 64 %          | 830         |
| Limonene   | 138-86-3   | 94 %          | 990         |
| Cineole  | 470-82-6   | 93 %          | 250         |
| Tridecane  | 629-50-5   | 78 %          | 400         |

Q = Exceeds Quality Control limits of 70% to 130%, due to matrix effects.

Container Type: VOST Tube

| Surrogates            | % Recovery | Method Limits |
|-----------------------|------------|---------------|
| Dibromofluoromethane  | 100        | 72-135        |
| 1,2-Dichloroethane-d4 | 103        | 69-137        |
| Toluene-d8            | 99         | 77-124        |
| 4-Bromofluorobenzene  | 150 Q      | 70-133        |

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**AIR TOXICS LTD.**

SAMPLE NAME : 11210 a&amp;b

ID#: 9910396-03A/B

Modified VOST 5041A GC/MS Full Scan

|                     |         |                                     |
|---------------------|---------|-------------------------------------|
| <b>File Name:</b>   | n110511 | <b>Date of Collection:</b> 10/25/99 |
| <b>Dil. Factor:</b> | 1.00    | <b>Date of Analysis:</b> 11/5/99    |

| Compound                         | Det. Limit (nG) | Amount (nG)  |
|----------------------------------|-----------------|--------------|
| Chloromethane                    | 10              | Not Detected |
| Vinyl Chloride                   | 10              | Not Detected |
| Bromomethane                     | 10              | Not Detected |
| Chloroethane                     | 10              | Not Detected |
| Freon 11                         | 10              | 120          |
| 1,1-Dichloroethene               | 10              | Not Detected |
| Carbon Disulfide                 | 10              | Not Detected |
| Acetone                          | 50              | Not Detected |
| Methylene Chloride               | 10              | Not Detected |
| trans-1,2-Dichloroethene         | 10              | Not Detected |
| 1,1-Dichloroethane               | 10              | Not Detected |
| Vinyl Acetate                    | 50              | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 50              | Not Detected |
| Chloroform                       | 10              | Not Detected |
| 1,1,1-Trichloroethane            | 10              | 11           |
| Carbon Tetrachloride             | 10              | Not Detected |
| Benzene                          | 10              | Not Detected |
| 1,2-Dichloroethane               | 10              | Not Detected |
| Trichloroethene                  | 10              | Not Detected |
| 1,2-Dichloropropane              | 10              | Not Detected |
| Bromodichloromethane             | 10              | Not Detected |
| trans-1,3-Dichloropropene        | 10              | Not Detected |
| 4-Methyl-2-pentanone             | 50              | Not Detected |
| Toluene                          | 10              | Not Detected |
| cis-1,3-Dichloropropene          | 10              | Not Detected |
| 1,1,2-Trichloroethane            | 10              | Not Detected |
| Tetrachloroethene                | 10              | 410          |
| 2-Hexanone                       | 50              | Not Detected |
| Dibromochloromethane             | 10              | Not Detected |
| Chlorobenzene                    | 10              | Not Detected |
| Ethyl Benzene                    | 10              | Not Detected |
| m,p-Xylene                       | 10              | Not Detected |
| o-Xylene                         | 10              | Not Detected |
| Styrene                          | 10              | Not Detected |
| Bromoform                        | 10              | Not Detected |
| 1,1,2,2-Tetrachloroethane        | 10              | Not Detected |
| 1,3-Dichlorobenzene              | 10              | Not Detected |
| 1,4-Dichlorobenzene              | 10              | Not Detected |
| 1,2-Dichlorobenzene              | 10              | Not Detected |
| cis-1,2-Dichloroethene           | 10              | Not Detected |

## TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported

| Compound                                 | CAS Number | Match Quality | Amount (nG) |
|--|------------|---------------|-------------|
| Methane, chlorodifluoro-                 | 75-45-6    | 83 %          | 130         |
| Ethane, 1,2-dichloro-1,1,2,2-tetrafluoro | 76-14-2    | 72 %          | 91          |

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**AIR TOXICS LTD.**

SAMPLE NAME : 11210 a&amp;b

ID#: 9910396-03A/B

Modified VOST 5041A GC/MS Full Scan

|              |         |                     |          |
|--------------|---------|---------------------|----------|
| File Name:   | n110511 | Date of Collection: | 10/25/99 |
| Dil. Factor: | 1.00    | Date of Analysis:   | 11/5/99  |

**TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported**

| Compound    | CAS Number | Match Quality | Amount (nG) |
|-------------|------------|---------------|-------------|
| Heptanal    | 111-71-7   | 83 %          | 74          |
| Unknown     | NA         | NA            | 160         |
| Nonanal     | 124-19-6   | 83 %          | 220         |
| Hexadecanol | 29354-98-1 | 64 %          | 70          |

Container Type: VOST Tube

| Surrogates            | % Recovery | Method Limits |
|-----------------------|------------|---------------|
| Dibromofluoromethane  | 99         | 72-135        |
| 1,2-Dichloroethane-d4 | 107        | 69-137        |
| Toluene-d8            | 100        | 77-124        |
| 4-Bromofluorobenzene  | 98         | 70-133        |

# AIR TOXICS LTD.

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SAMPLE NAME : 11223 a&b

ID#: 9910396-02A/B

Modified VOST 5041A GC/MS Full Scan

|              |         |                              |
|--------------|---------|------------------------------|
| File Name:   | n110510 | Date of Collection: 10/25/99 |
| Dil. Factor: | 1.00    | Date of Analysis: 11/5/99    |

| Compound                         | Det. Limit (nG) | Amount (nG)  |
|----------------------------------|-----------------|--------------|
| Chloromethane                    | 10              | Not Detected |
| Vinyl Chloride                   | 10              | Not Detected |
| Bromomethane                     | 10              | Not Detected |
| Chloroethane                     | 10              | Not Detected |
| Freon 11                         | 10              | 35           |
| 1,1-Dichloroethene               | 10              | Not Detected |
| Carbon Disulfide                 | 10              | 11           |
| Acetone                          | 50              | Not Detected |
| Methylene Chloride               | 10              | 11           |
| trans-1,2-Dichloroethene         | 10              | Not Detected |
| 1,1-Dichloroethane               | 10              | Not Detected |
| Vinyl Acetate                    | 50              | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 50              | Not Detected |
| Chloroform                       | 10              | Not Detected |
| 1,1,1-Trichloroethane            | 10              | Not Detected |
| Carbon Tetrachloride             | 10              | Not Detected |
| Benzene                          | 10              | Not Detected |
| 1,2-Dichloroethane               | 10              | Not Detected |
| Trichloroethene                  | 10              | Not Detected |
| 1,2-Dichloropropane              | 10              | Not Detected |
| Bromodichloromethane             | 10              | Not Detected |
| trans-1,3-Dichloropropene        | 10              | Not Detected |
| 4-Methyl-2-pentanone             | 50              | Not Detected |
| Toluene                          | 10              | Not Detected |
| cis-1,3-Dichloropropene          | 10              | Not Detected |
| 1,1,2-Trichloroethane            | 10              | Not Detected |
| Tetrachloroethene                | 10              | 26           |
| 2-Hexanone                       | 50              | Not Detected |
| Dibromochloromethane             | 10              | Not Detected |
| Chlorobenzene                    | 10              | Not Detected |
| Ethyl Benzene                    | 10              | Not Detected |
| m,p-Xylene                       | 10              | Not Detected |
| o-Xylene                         | 10              | Not Detected |
| Styrene                          | 10              | Not Detected |
| Bromoform                        | 10              | Not Detected |
| 1,1,2,2-Tetrachloroethane        | 10              | Not Detected |
| 1,3-Dichlorobenzene              | 10              | Not Detected |
| 1,4-Dichlorobenzene              | 10              | Not Detected |
| 1,2-Dichlorobenzene              | 10              | Not Detected |
| cis-1,2-Dichloroethene           | 10              | Not Detected |

**TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported**

| Compound            | CAS Number | Match Quality | Amount (nG) |
|---------------------|------------|---------------|-------------|
| 3-Cyclohepten-1-one | 1121-64-8  | 91 %          | 2700        |
| Unknown             | NA         | NA            | 81          |

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**AIR TOXICS LTD.**

SAMPLE NAME : 11223 a&amp;b

ID#: 9910396-02A/B

Modified VOST 5041A GC/MS Full Scan

|                     |         |                            |          |
|---------------------|---------|----------------------------|----------|
| <b>File Name:</b>   | n110510 | <b>Date of Collection:</b> | 10/25/99 |
| <b>Dil. Factor:</b> | 1.00    | <b>Date of Analysis:</b>   | 11/5/99  |

| TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported |            |               |             |
|--|------------|---------------|-------------|
| Compound   | CAS Number | Match Quality | Amount (ng) |
| Octanal  | 124-13-0   | 60 %          | 73          |
| Nonanal  | 124-19-6   | 83 %          | 130         |
| Unknown  | NA         | NA            | 56          |

Container Type: VOST Tube

| Surrogates            | % Recovery | Method Limits |
|-----------------------|------------|---------------|
| Dibromofluoromethane  | 98         | 72-135        |
| 1,2-Dichloroethane-d4 | 105        | 69-137        |
| Toluene-d8            | 100        | 77-124        |
| 4-Bromofluorobenzene  | 97         | 70-133        |

**AIR TOXICS LTD.**

SAMPLE NAME : 11201 a&amp;b

ID#: 9910376-08A/B

Modified VOST 5041A GC/MS Full Scan

|              |         |                     |          |
|--------------|---------|---------------------|----------|
| File Name:   | n110508 | Date of Collection: | 10/25/99 |
| Dil. Factor: | 1.00    | Date of Analysis:   | 11/5/99  |

| Compound                         | Det. Limit (nG) | Amount (nG)  |
|----------------------------------|-----------------|--------------|
| Chloromethane                    | 10              | Not Detected |
| Vinyl Chloride                   | 10              | Not Detected |
| Bromomethane                     | 10              | Not Detected |
| Chloroethane                     | 10              | Not Detected |
| Freon 11                         | 10              | 16           |
| 1,1-Dichloroethene               | 10              | Not Detected |
| Carbon Disulfide                 | 10              | 26           |
| Acetone                          | 50              | Not Detected |
| Methylene Chloride               | 10              | 10           |
| trans-1,2-Dichloroethene         | 10              | Not Detected |
| 1,1-Dichloroethane               | 10              | Not Detected |
| Vinyl Acetate                    | 50              | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 50              | Not Detected |
| Chloroform                       | 10              | Not Detected |
| 1,1,1-Trichloroethane            | 10              | Not Detected |
| Carbon Tetrachloride             | 10              | Not Detected |
| Benzene                          | 10              | Not Detected |
| 1,2-Dichloroethane               | 10              | Not Detected |
| Trichloroethene                  | 10              | Not Detected |
| 1,2-Dichloropropane              | 10              | Not Detected |
| Bromodichloromethane             | 10              | Not Detected |
| trans-1,3-Dichloropropene        | 10              | Not Detected |
| 4-Methyl-2-pentanone             | 50              | Not Detected |
| Toluene                          | 10              | Not Detected |
| cis-1,3-Dichloropropene          | 10              | Not Detected |
| 1,1,2-Trichloroethane            | 10              | Not Detected |
| Tetrachloroethene                | 10              | 11           |
| 2-Hexanone                       | 50              | Not Detected |
| Dibromochloromethane             | 10              | Not Detected |
| Chlorobenzene                    | 10              | Not Detected |
| Ethyl Benzene                    | 10              | Not Detected |
| m,p-Xylene                       | 10              | Not Detected |
| o-Xylene                         | 10              | Not Detected |
| Styrene                          | 10              | Not Detected |
| Bromoform                        | 10              | Not Detected |
| 1,1,2,2-Tetrachloroethane        | 10              | Not Detected |
| 1,3-Dichlorobenzene              | 10              | Not Detected |
| 1,4-Dichlorobenzene              | 10              | Not Detected |
| 1,2-Dichlorobenzene              | 10              | Not Detected |
| cis-1,2-Dichloroethene           | 10              | Not Detected |

**TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported**

| Compound | CAS Number | Match Quality | Amount (nG) |
|----------|------------|---------------|-------------|
| Unknown  | NA         | NA            | 50          |
| Octanal  | 124-13-0   | 60 %          | 80          |

**AIR TOXICS LTD.**

SAMPLE NAME : 11201 a&amp;b

ID#: 9910376-08A/B

Modified VOST 5041A GC/MS Full Scan

|              |         |                     |          |
|--------------|---------|---------------------|----------|
| File Name:   | n110508 | Date of Collection: | 10/25/99 |
| Dil. Factor: | 1.00    | Date of Analysis:   | 11/5/99  |

## TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported

| Compound | CAS Number | Match Quality | Amount (nG) |
|----------|------------|---------------|-------------|
| Nonanal  | 124-19-6   | 83 %          | 120         |

Container Type: VOST Tube

| Surrogates            | % Recovery | Method Limits |
|-----------------------|------------|---------------|
| Dibromofluoromethane  | 100        | 72-135        |
| 1,2-Dichloroethane-d4 | 104        | 69-137        |
| Toluene-d8            | 100        | 77-124        |
| 4-Bromofluorobenzene  | 98         | 70-133        |

**AIR TOXICS LTD.**

SAMPLE NAME : 11004 a&amp;b

ID#: 9910376-07A/B

Modified VOST 5041A GC/MS Full Scan

|              |         |                     |          |
|--------------|---------|---------------------|----------|
| File Name:   | n110507 | Date of Collection: | 10/25/99 |
| Dil. Factor: | 1:00    | Date of Analysis:   | 11/5/99  |

| Compound                         | Det. Limit (nG) | Amount (nG)  |
|----------------------------------|-----------------|--------------|
| Chloromethane                    | 10              | Not Detected |
| Vinyl Chloride                   | 10              | Not Detected |
| Bromomethane                     | 10              | Not Detected |
| Chloroethane                     | 10              | Not Detected |
| Freon 11                         | 10              | 15           |
| 1,1-Dichloroethene               | 10              | Not Detected |
| Carbon Disulfide                 | 10              | 46           |
| Acetone                          | 50              | Not Detected |
| Methylene Chloride               | 10              | 11           |
| trans-1,2-Dichloroethene         | 10              | Not Detected |
| 1,1-Dichloroethane               | 10              | Not Detected |
| Vinyl Acetate                    | 50              | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 50              | Not Detected |
| Chloroform                       | 10              | Not Detected |
| 1,1,1-Trichloroethane            | 10              | Not Detected |
| Carbon Tetrachloride             | 10              | Not Detected |
| Benzene                          | 10              | Not Detected |
| 1,2-Dichloroethane               | 10              | Not Detected |
| Trichloroethene                  | 10              | Not Detected |
| 1,2-Dichloropropane              | 10              | Not Detected |
| Bromodichloromethane             | 10              | Not Detected |
| trans-1,3-Dichloropropene        | 10              | Not Detected |
| 4-Methyl-2-pentanone             | 50              | Not Detected |
| Toluene                          | 10              | Not Detected |
| cis-1,3-Dichloropropene          | 10              | Not Detected |
| 1,1,2-Trichloroethane            | 10              | Not Detected |
| Tetrachloroethene                | 10              | Not Detected |
| 2-Hexanone                       | 50              | Not Detected |
| Dibromochloromethane             | 10              | Not Detected |
| Chlorobenzene                    | 10              | Not Detected |
| Ethyl Benzene                    | 10              | Not Detected |
| m,p-Xylene                       | 10              | Not Detected |
| o-Xylene                         | 10              | Not Detected |
| Styrene                          | 10              | Not Detected |
| Bromoform                        | 10              | Not Detected |
| 1,1,2,2-Tetrachloroethane        | 10              | Not Detected |
| 1,3-Dichlorobenzene              | 10              | Not Detected |
| 1,4-Dichlorobenzene              | 10              | Not Detected |
| 1,2-Dichlorobenzene              | 10              | Not Detected |
| cis-1,2-Dichloroethene           | 10              | Not Detected |

**TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported**

| Compound            | CAS Number | Match Quality | Amount (nG) |
|---------------------|------------|---------------|-------------|
| 3-Cyclohepten-1-one | 1121-64-8  | 91 %          | 990         |
| Nonanal             | 124-19-6   | 83 %          | 53          |

**AIR TOXICS LTD.**

SAMPLE NAME : 11004 a&amp;b

ID#: 9910376-07A/B

Modified VOST 5041A GC/MS Full Scan

|              |         |                     |          |
|--------------|---------|---------------------|----------|
| File Name:   | n110507 | Date of Collection: | 10/25/99 |
| Dil. Factor: | 1.00    | Date of Analysis:   | 11/5/99  |

| TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported |            |               |             |
|--|------------|---------------|-------------|
| Compound   | CAS Number | Match Quality | Amount (nG) |

Container Type: VOST Tube

| Surrogates            | % Recovery | Method Limits |
|-----------------------|------------|---------------|
| Dibromofluoromethane  | 99         | 72-135        |
| 1,2-Dichloroethane-d4 | 98         | 69-137        |
| Toluene-d8            | 102        | 77-124        |
| 4-Bromofluorobenzene  | 97         | 70-133        |

**AIR TOXICS LTD.**

SAMPLE NAME : 11111 a&amp;b

ID#: 9910376-06A/B

Modified VOST 5041A GC/MS Full Scan

|              |         |                     |          |
|--------------|---------|---------------------|----------|
| File Name:   | n110506 | Date of Collection: | 10/25/99 |
| Dil. Factor: | 1.00    | Date of Analysis:   | 11/5/99  |

| Compound                         | Det. Limit (nG) | Amount (nG)  |
|----------------------------------|-----------------|--------------|
| Chloromethane                    | 10              | Not Detected |
| Vinyl Chloride                   | 10              | Not Detected |
| Bromomethane                     | 10              | Not Detected |
| Chloroethane                     | 10              | Not Detected |
| Freon 11                         | 10              | 11           |
| 1,1-Dichloroethene               | 10              | Not Detected |
| Carbon Disulfide                 | 10              | 59           |
| Acetone                          | 50              | Not Detected |
| Methylene Chloride               | 10              | 11           |
| trans-1,2-Dichloroethene         | 10              | Not Detected |
| 1,1-Dichloroethane               | 10              | Not Detected |
| Vinyl Acetate                    | 50              | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 50              | Not Detected |
| Chloroform                       | 10              | Not Detected |
| 1,1,1-Trichloroethane            | 10              | Not Detected |
| Carbon Tetrachloride             | 10              | Not Detected |
| Benzene                          | 10              | Not Detected |
| 1,2-Dichloroethane               | 10              | Not Detected |
| Trichloroethene                  | 10              | Not Detected |
| 1,2-Dichloropropane              | 10              | Not Detected |
| Bromodichloromethane             | 10              | Not Detected |
| trans-1,3-Dichloropropene        | 10              | Not Detected |
| 4-Methyl-2-pentanone             | 50              | Not Detected |
| Toluene                          | 10              | Not Detected |
| cis-1,3-Dichloropropene          | 10              | Not Detected |
| 1,1,2-Trichloroethane            | 10              | Not Detected |
| Tetrachloroethene                | 10              | Not Detected |
| 2-Hexanone                       | 50              | Not Detected |
| Dibromochloromethane             | 10              | Not Detected |
| Chlorobenzene                    | 10              | Not Detected |
| Ethyl Benzene                    | 10              | Not Detected |
| m,p-Xylene                       | 10              | Not Detected |
| o-Xylene                         | 10              | Not Detected |
| Styrene                          | 10              | Not Detected |
| Bromoform                        | 10              | Not Detected |
| 1,1,2,2-Tetrachloroethane        | 10              | Not Detected |
| 1,3-Dichlorobenzene              | 10              | Not Detected |
| 1,4-Dichlorobenzene              | 10              | Not Detected |
| 1,2-Dichlorobenzene              | 10              | Not Detected |
| cis-1,2-Dichloroethene           | 10              | Not Detected |

**TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported**

| Compound | CAS Number | Match Quality | Amount (nG) |
|----------|------------|---------------|-------------|
| Unknown  | NA         | NA            | 81          |
| Nonanal  | 124-19-6   | 72 %          | 58          |

**AIR TOXICS LTD.**

SAMPLE NAME : 11111 a&amp;b

ID#: 9910376-06A/B

Modified VOST 5041A GC/MS Full Scan

|             |         |                     |          |
|-------------|---------|---------------------|----------|
| File Name:  | n110506 | Date of Collection: | 10/25/99 |
| Dil Factor: | 1:00    | Date of Analysis:   | 11/5/99  |

## TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported

| Compound | CAS Number | Match Quality | Amount (nG) |
|----------|------------|---------------|-------------|
|----------|------------|---------------|-------------|

Container Type: VOST Tube

| Surrogates            | % Recovery | Method Limits |
|-----------------------|------------|---------------|
| Dibromofluoromethane  | 99         | 72-135        |
| 1,2-Dichloroethane-d4 | 100        | 69-137        |
| Toluene-d8            | 100        | 77-124        |
| 4-Bromofluorobenzene  | 98         | 70-133        |

**AIR TOXICS LTD.**

SAMPLE NAME : 11102 a&amp;b

ID#: 9910376-05A/B

Modified VOST 5041A GC/MS Full Scan

|              |         |                     |          |
|--------------|---------|---------------------|----------|
| File Name:   | n110505 | Date of Collection: | 10/25/99 |
| Dil. Factor: | 1.00    | Date of Analysis:   | 11/5/99  |

| Compound                         | Det. Limit (nG) | Amount (nG)  |
|----------------------------------|-----------------|--------------|
| Chloromethane                    | 10              | Not Detected |
| Vinyl Chloride                   | 10              | Not Detected |
| Bromomethane                     | 10              | Not Detected |
| Chloroethane                     | 10              | Not Detected |
| Freon 11                         | 10              | 14           |
| 1,1-Dichloroethene               | 10              | Not Detected |
| Carbon Disulfide                 | 10              | 39           |
| Acetone                          | 50              | Not Detected |
| Methylene Chloride               | 10              | 39           |
| trans-1,2-Dichloroethene         | 10              | Not Detected |
| 1,1-Dichloroethane               | 10              | Not Detected |
| Vinyl Acetate                    | 50              | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 50              | Not Detected |
| Chloroform                       | 10              | Not Detected |
| 1,1,1-Trichloroethane            | 10              | Not Detected |
| Carbon Tetrachloride             | 10              | Not Detected |
| Benzene                          | 10              | Not Detected |
| 1,2-Dichloroethane               | 10              | Not Detected |
| Trichloroethene                  | 10              | Not Detected |
| 1,2-Dichloropropane              | 10              | Not Detected |
| Bromodichloromethane             | 10              | Not Detected |
| trans-1,3-Dichloropropene        | 10              | Not Detected |
| 4-Methyl-2-pentanone             | 50              | Not Detected |
| Toluene                          | 10              | Not Detected |
| cis-1,3-Dichloropropene          | 10              | Not Detected |
| 1,1,2-Trichloroethane            | 10              | Not Detected |
| Tetrachloroethene                | 10              | Not Detected |
| 2-Hexanone                       | 50              | Not Detected |
| Dibromochloromethane             | 10              | Not Detected |
| Chlorobenzene                    | 10              | Not Detected |
| Ethyl Benzene                    | 10              | Not Detected |
| m,p-Xylene                       | 10              | Not Detected |
| o-Xylene                         | 10              | Not Detected |
| Styrene                          | 10              | Not Detected |
| Bromoform                        | 10              | Not Detected |
| 1,1,2,2-Tetrachloroethane        | 10              | Not Detected |
| 1,3-Dichlorobenzene              | 10              | Not Detected |
| 1,4-Dichlorobenzene              | 10              | Not Detected |
| 1,2-Dichlorobenzene              | 10              | Not Detected |
| cis-1,2-Dichloroethene           | 10              | Not Detected |

**TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported**

| Compound        | CAS Number | Match Quality | Amount (nG) |
|-----------------|------------|---------------|-------------|
| 2-Butenal, (E)- | 123-73-9   | 78 %          | 55          |

**AIR TOXICS LTD.**

SAMPLE NAME : 11102 a&amp;b

ID#: 9910376-05A/B

Modified VOST 5041A GC/MS Full Scan

|              |         |                     |          |
|--------------|---------|---------------------|----------|
| File Name:   | n110505 | Date of Collection: | 10/25/99 |
| Dil. Factor: | 1.00    | Date of Analysis:   | 11/5/99  |

## TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported

| Compound | CAS Number | Match Quality | Amount (nG) |
|----------|------------|---------------|-------------|
|----------|------------|---------------|-------------|

Container Type: VOST Tube

| Surrogates            | % Recovery | Method Limits |
|-----------------------|------------|---------------|
| Dibromofluoromethane  | 107        | 72-135        |
| 1,2-Dichloroethane-d4 | 98         | 69-137        |
| Toluene-d8            | 91         | 77-124        |
| 4-Bromofluorobenzene  | 98         | 70-133        |

000079

**AIR TOXICS LTD.**

SAMPLE NAME : 11215 a&amp;b

ID#: 9910432-05A/B

Modified VOST 5041A GC/MS Full Scan

|                     |         |                                     |
|---------------------|---------|-------------------------------------|
| <b>File Name:</b>   | h110607 | <b>Date of Collection:</b> 10/27/99 |
| <b>Dil. Factor:</b> | 1.00    | <b>Date of Analysis:</b> 11/6/99    |

| Compound                         | Det. Limit (nG) | Amount (nG)  |
|----------------------------------|-----------------|--------------|
| Chloromethane                    | 10              | Not Detected |
| Vinyl Chloride                   | 10              | Not Detected |
| Bromomethane                     | 10              | Not Detected |
| Chloroethane                     | 10              | Not Detected |
| Freon 11                         | 10              | 72           |
| 1,1-Dichloroethene               | 10              | Not Detected |
| Carbon Disulfide                 | 10              | 80           |
| Acetone                          | 50              | 94           |
| Methylene Chloride               | 10              | Not Detected |
| trans-1,2-Dichloroethene         | 10              | Not Detected |
| 1,1-Dichloroethane               | 10              | Not Detected |
| Vinyl Acetate                    | 50              | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 50              | Not Detected |
| Chloroform                       | 10              | Not Detected |
| 1,1,1-Trichloroethane            | 10              | 52           |
| Carbon Tetrachloride             | 10              | Not Detected |
| Benzene                          | 10              | Not Detected |
| 1,2-Dichloroethane               | 10              | Not Detected |
| Trichloroethene                  | 10              | Not Detected |
| 1,2-Dichloropropane              | 10              | Not Detected |
| Bromodichloromethane             | 10              | Not Detected |
| trans-1,3-Dichloropropene        | 10              | Not Detected |
| 4-Methyl-2-pentanone             | 50              | Not Detected |
| Toluene                          | 10              | Not Detected |
| cis-1,3-Dichloropropene          | 10              | Not Detected |
| 1,1,2-Trichloroethane            | 10              | Not Detected |
| Tetrachloroethene                | 10              | 15           |
| 2-Hexanone                       | 50              | Not Detected |
| Dibromochloromethane             | 10              | Not Detected |
| Chlorobenzene                    | 10              | Not Detected |
| Ethyl Benzene                    | 10              | Not Detected |
| m,p-Xylene                       | 10              | Not Detected |
| o-Xylene                         | 10              | Not Detected |
| Styrene                          | 10              | Not Detected |
| Bromoform                        | 10              | Not Detected |
| 1,1,2,2-Tetrachloroethane        | 10              | Not Detected |
| 1,3-Dichlorobenzene              | 10              | Not Detected |
| 1,4-Dichlorobenzene              | 10              | Not Detected |
| 1,2-Dichlorobenzene              | 10              | Not Detected |
| cis-1,2-Dichloroethene           | 10              | Not Detected |

**TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported**

| Compound                         | CAS Number | Match Quality | Amount (nG) |
|----------------------------------|------------|---------------|-------------|
| 2(1H)-Pyrimidinethione, 4-amino- | 333-49-3   | 64 %          | 58          |
| Methane, dichlorodifluoro-       | 75-71-8    | 83 %          | 73          |

00008

**AIR TOXICS LTD.**

SAMPLE NAME : 11215 a&amp;b

ID#: 9910432-05A/B

Modified VOST 5041A GC/MS Full Scan

|              |         |                     |          |
|--------------|---------|---------------------|----------|
| File Name:   | h110607 | Date of Collection: | 10/27/99 |
| Dil. Factor: | 1.00    | Date of Analysis:   | 11/6/99  |

| TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported |            |               |             |
|--|------------|---------------|-------------|
| Compound   | CAS Number | Match Quality | Amount (nG) |
| Hexanal  | 66-25-1    | 47 %          | 36          |
| Heptanal   | 111-71-7   | 72 %          | 48          |
| Octanal  | 124-13-0   | 53 %          | 93          |
| Nonanal  | 124-19-6   | 72 %          | 240         |
| Dodecanal  | 112-54-9   | 47 %          | 73          |

Container Type: VOST Tube

| Surrogates            | % Recovery | Method Limits |
|-----------------------|------------|---------------|
| Dibromofluoromethane  | 108        | 72-135        |
| 1,2-Dichloroethane-d4 | 127        | 69-137        |
| Toluene-d8            | 111        | 77-124        |
| 4-Bromofluorobenzene  | 121        | 70-133        |

000176

**AIR TOXICS LTD.**

SAMPLE NAME : 11224 a&amp;b

ID#: 9910432-09A/B

Modified VOST 5041A GC/MS Full Scan

|                     |         |                                     |
|---------------------|---------|-------------------------------------|
| <b>File Name:</b>   | h110611 | <b>Date of Collection:</b> 10/27/99 |
| <b>Dil. Factor:</b> | 1.00    | <b>Date of Analysis:</b> 11/6/99    |

| Compound                         | Det. Limit (nG) | Amount (nG)  |
|----------------------------------|-----------------|--------------|
| Chloromethane                    | 10              | Not Detected |
| Vinyl Chloride                   | 10              | Not Detected |
| Bromomethane                     | 10              | Not Detected |
| Chloroethane                     | 10              | Not Detected |
| Freon 11                         | 10              | 26           |
| 1,1-Dichloroethene               | 10              | Not Detected |
| Carbon Disulfide                 | 10              | 20           |
| Acetone                          | 50              | Not Detected |
| Methylene Chloride               | 10              | Not Detected |
| trans-1,2-Dichloroethene         | 10              | Not Detected |
| 1,1-Dichloroethane               | 10              | Not Detected |
| Vinyl Acetate                    | 50              | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 50              | Not Detected |
| Chloroform                       | 10              | Not Detected |
| 1,1,1-Trichloroethane            | 10              | Not Detected |
| Carbon Tetrachloride             | 10              | Not Detected |
| Benzene                          | 10              | Not Detected |
| 1,2-Dichloroethane               | 10              | Not Detected |
| Trichloroethene                  | 10              | Not Detected |
| 1,2-Dichloropropane              | 10              | Not Detected |
| Bromodichloromethane             | 10              | Not Detected |
| trans-1,3-Dichloropropene        | 10              | Not Detected |
| 4-Methyl-2-pentanone             | 50              | Not Detected |
| Toluene                          | 10              | Not Detected |
| cis-1,3-Dichloropropene          | 10              | Not Detected |
| 1,1,2-Trichloroethane            | 10              | Not Detected |
| Tetrachloroethene                | 10              | 13           |
| 2-Hexanone                       | 50              | Not Detected |
| Dibromochloromethane             | 10              | Not Detected |
| Chlorobenzene                    | 10              | Not Detected |
| Ethyl Benzene                    | 10              | Not Detected |
| m,p-Xylene                       | 10              | Not Detected |
| o-Xylene                         | 10              | Not Detected |
| Styrene                          | 10              | Not Detected |
| Bromoform                        | 10              | Not Detected |
| 1,1,2,2-Tetrachloroethane        | 10              | Not Detected |
| 1,3-Dichlorobenzene              | 10              | Not Detected |
| 1,4-Dichlorobenzene              | 10              | Not Detected |
| 1,2-Dichlorobenzene              | 10              | Not Detected |
| cis-1,2-Dichloroethene           | 10              | Not Detected |

## TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported

| Compound      | CAS Number | Match Quality | Amount (nG) |
|---------------|------------|---------------|-------------|
| Unknown Freon | NA         | NA            | 180         |
| Unknown Freon | NA         | NA            | 330         |

000177

**AIR TOXICS LTD.**

SAMPLE NAME : 11224 a&amp;b

ID#: 9910432-09A/B

Modified VOST 5041A GC/MS Full Scan

|                     |                |                            |                 |
|---------------------|----------------|----------------------------|-----------------|
| <b>File Name:</b>   | <b>h110611</b> | <b>Date of Collection:</b> | <b>10/27/99</b> |
| <b>Dil. Factor:</b> | <b>1.00</b>    | <b>Date of Analysis:</b>   | <b>11/6/99</b>  |

**TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported**

| <b>Compound</b>                   | <b>CAS Number</b> | <b>Match Quality</b> | <b>Amount (nG)</b> |
|-----------------------------------|-------------------|----------------------|--------------------|
| 1-Propene, 1,1,3,3,3-pentafluoro- | 690-27-7          | 91 %                 | 100                |
| Unknown                           | NA                | NA                   | 170                |
| Unknown                           | NA                | NA                   | 170                |
| Propane, 1,1,1,3,3,3-hexafluoro-  | 690-39-1          | 78 %                 | 1300               |
| 3-Cyclohepten-1-one               | 1121-64-8         | 91 %                 | 210                |
| Octanal                           | 124-13-0          | 64 %                 | 140                |
| Nonanal                           | 124-19-6          | 72 %                 | 390                |
| Decanal                           | 112-31-2          | 64 %                 | 130                |

Container Type: VOST Tube

| <b>Surrogates</b>     | <b>% Recovery</b> | <b>Method Limits</b> |
|-----------------------|-------------------|----------------------|
| Dibromofluoromethane  | 109               | 72-135               |
| 1,2-Dichloroethane-d4 | 132               | 69-137               |
| Toluene-d8            | 102               | 77-124               |
| 4-Bromofluorobenzene  | 115               | 70-133               |

# AIR TOXICS LTD.

000013

SAMPLE NAME : 11313 a&b

ID#: 9910471-02A/B

Modified VOST 5041A GC/MS Full Scan

|              |         |                     |          |
|--------------|---------|---------------------|----------|
| File Name:   | h110909 | Date of Collection: | 10/29/99 |
| Dil. Factor: | 1.00    | Date of Analysis:   | 11/9/99  |

| Compound                         | Det. Limit (nG) | Amount (nG)  |
|----------------------------------|-----------------|--------------|
| Chloromethane                    | 10              | Not Detected |
| Vinyl Chloride                   | 10              | Not Detected |
| Bromomethane                     | 10              | Not Detected |
| Chloroethane                     | 10              | Not Detected |
| Freon 11                         | 10              | 32           |
| 1,1-Dichloroethene               | 10              | Not Detected |
| Carbon Disulfide                 | 10              | Not Detected |
| Acetone                          | 50              | Not Detected |
| Methylene Chloride               | 10              | Not Detected |
| trans-1,2-Dichloroethene         | 10              | Not Detected |
| 1,1-Dichloroethane               | 10              | Not Detected |
| Vinyl Acetate                    | 50              | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 50              | Not Detected |
| Chloroform                       | 10              | Not Detected |
| 1,1,1-Trichloroethane            | 10              | Not Detected |
| Carbon Tetrachloride             | 10              | Not Detected |
| Benzene                          | 10              | Not Detected |
| 1,2-Dichloroethane               | 10              | Not Detected |
| Trichloroethene                  | 10              | Not Detected |
| 1,2-Dichloropropane              | 10              | Not Detected |
| Bromodichloromethane             | 10              | Not Detected |
| trans-1,3-Dichloropropene        | 10              | Not Detected |
| 4-Methyl-2-pentanone             | 50              | Not Detected |
| Toluene                          | 10              | Not Detected |
| cis-1,3-Dichloropropene          | 10              | Not Detected |
| 1,1,2-Trichloroethane            | 10              | Not Detected |
| Tetrachloroethene                | 10              | Not Detected |
| 2-Hexanone                       | 50              | Not Detected |
| Dibromochloromethane             | 10              | Not Detected |
| Chlorobenzene                    | 10              | Not Detected |
| Ethyl Benzene                    | 10              | Not Detected |
| m,p-Xylene                       | 10              | Not Detected |
| o-Xylene                         | 10              | Not Detected |
| Styrene                          | 10              | Not Detected |
| Bromoform                        | 10              | Not Detected |
| 1,1,2,2-Tetrachloroethane        | 10              | Not Detected |
| 1,3-Dichlorobenzene              | 10              | Not Detected |
| 1,4-Dichlorobenzene              | 10              | Not Detected |
| 1,2-Dichlorobenzene              | 10              | Not Detected |
| cis-1,2-Dichloroethene           | 10              | Not Detected |

**TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported**

| Compound | CAS Number | Match Quality | Amount (nG) |
|----------|------------|---------------|-------------|
| Unknown  | NA         | NA            | 160         |
| Decanal  | 112-31-2   | 80 %          | 83          |

000014

# AIR TOXICS LTD.

SAMPLE NAME : 11313 a&b

ID#: 9910471-02A/B

Modified VOST 5041A GC/MS Full Scan

|              |         |                     |          |
|--------------|---------|---------------------|----------|
| File Name:   | h110909 | Date of Collection: | 10/29/99 |
| Dil. Factor: | 1.00    | Date of Analysis:   | 11/9/99  |

| TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported |            |               |             |
|--|------------|---------------|-------------|
| Compound   | CAS Number | Match Quality | Amount (nG) |

Q = Exceeds Quality Control limits.

Container Type: VOST Tube

| Surrogates            | % Recovery | Method Limits |
|-----------------------|------------|---------------|
| Dibromofluoromethane  | 112        | 72-135        |
| 1,2-Dichloroethane-d4 | 145 Q      | 69-137        |
| Toluene-d8            | 94         | 77-124        |
| 4-Bromofluorobenzene  | 124        | 70-133        |

# AIR TOXICS LTD.

000055

SAMPLE NAME : 11222 a&b

ID#: 9910444-05A/B

Modified VOST 5041A GC/MS Full Scan

|              |         |                              |
|--------------|---------|------------------------------|
| File Name:   | h110615 | Date of Collection: 10/28/99 |
| Dil. Factor: | 1.00    | Date of Analysis: 11/6/99    |

| Compound                         | Det. Limit (nG) | Amount (nG)  |
|----------------------------------|-----------------|--------------|
| Chloromethane                    | 10              | Not Detected |
| Vinyl Chloride                   | 10              | Not Detected |
| Bromomethane                     | 10              | Not Detected |
| Chloroethane                     | 10              | Not Detected |
| Freon 11                         | 10              | 34           |
| 1,1-Dichloroethene               | 10              | Not Detected |
| Carbon Disulfide                 | 10              | 38           |
| Acetone                          | 50              | 57           |
| Methylene Chloride               | 10              | Not Detected |
| trans-1,2-Dichloroethene         | 10              | Not Detected |
| 1,1-Dichloroethane               | 10              | Not Detected |
| Vinyl Acetate                    | 50              | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 50              | Not Detected |
| Chloroform                       | 10              | Not Detected |
| 1,1,1-Trichloroethane            | 10              | Not Detected |
| Carbon Tetrachloride             | 10              | Not Detected |
| Benzene                          | 10              | Not Detected |
| 1,2-Dichloroethane               | 10              | Not Detected |
| Trichloroethene                  | 10              | Not Detected |
| 1,2-Dichloropropane              | 10              | Not Detected |
| Bromodichloromethane             | 10              | Not Detected |
| trans-1,3-Dichloropropene        | 10              | Not Detected |
| 4-Methyl-2-pentanone             | 50              | Not Detected |
| Toluene                          | 10              | Not Detected |
| cis-1,3-Dichloropropene          | 10              | Not Detected |
| 1,1,2-Trichloroethane            | 10              | Not Detected |
| Tetrachloroethene                | 10              | 13           |
| 2-Hexanone                       | 50              | Not Detected |
| Dibromochloromethane             | 10              | Not Detected |
| Chlorobenzene                    | 10              | Not Detected |
| Ethyl Benzene                    | 10              | Not Detected |
| m,p-Xylene                       | 10              | Not Detected |
| o-Xylene                         | 10              | Not Detected |
| Styrene                          | 10              | Not Detected |
| Bromoform                        | 10              | Not Detected |
| 1,1,2,2-Tetrachloroethane        | 10              | Not Detected |
| 1,3-Dichlorobenzene              | 10              | Not Detected |
| 1,4-Dichlorobenzene              | 10              | Not Detected |
| 1,2-Dichlorobenzene              | 10              | Not Detected |
| cis-1,2-Dichloroethene           | 10              | Not Detected |

**TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported**

| Compound                                 | CAS Number | Match Quality | Amount (nG) |
|--|------------|---------------|-------------|
| Butanoic acid, heptafluoro-, sodium salt | 2218-54-4  | 90 %          | 110         |
| Propane, 1,1,1,3,3,3-hexafluoro-         | 690-39-1   | 64 %          | 170         |

# AIR TOXICS LTD.

000056

SAMPLE NAME : 11222 a&b

ID#: 9910444-05A/B

Modified VOST 5041A GC/MS Full Scan

|                     |                |                                     |
|---------------------|----------------|-------------------------------------|
| <b>File Name:</b>   | <b>h110615</b> | <b>Date of Collection:</b> 10/28/99 |
| <b>Dil. Factor:</b> | <b>1.00</b>    | <b>Date of Analysis:</b> 11/6/99    |

| TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported |            |               |             |
|--|------------|---------------|-------------|
| Compound   | CAS Number | Match Quality | Amount (nG) |
| Unknown  | NA         | NA            | 63          |
| Octanal  | 124-13-0   | 80 %          | 90          |
| Nonanal  | 124-19-6   | 72 %          | 250         |
| Dodecanal  | 112-54-9   | 90 %          | 64          |

Container Type: VOST Tube

| Surrogates            | % Recovery | Method Limits |
|-----------------------|------------|---------------|
| Dibromofluoromethane  | 112        | 72-135        |
| 1,2-Dichloroethane-d4 | 133        | 69-137        |
| Toluene-d8            | 101        | 77-124        |
| 4-Bromofluorobenzene  | 118        | 70-133        |

# AIR TOXICS LTD.

000036

SAMPLE NAME : 11315 a&b

ID#: 9910471-04A/B

Modified VOST 5041A GC/MS Full Scan

|              |         |                     |          |
|--------------|---------|---------------------|----------|
| File Name:   | n111107 | Date of Collection: | 10/29/99 |
| Dil. Factor: | 1.00    | Date of Analysis:   | 11/11/99 |

| Compound                         | Det. Limit (nG) | Amount (nG)  |
|----------------------------------|-----------------|--------------|
| Chloromethane                    | 10              | Not Detected |
| Vinyl Chloride                   | 10              | Not Detected |
| Bromomethane                     | 10              | Not Detected |
| Chloroethane                     | 10              | Not Detected |
| Freon 11                         | 10              | 22           |
| 1,1-Dichloroethene               | 10              | Not Detected |
| Carbon Disulfide                 | 10              | Not Detected |
| Acetone                          | 50              | Not Detected |
| Methylene Chloride               | 10              | Not Detected |
| trans-1,2-Dichloroethene         | 10              | Not Detected |
| 1,1-Dichloroethane               | 10              | Not Detected |
| Vinyl Acetate                    | 50              | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 50              | Not Detected |
| Chloroform                       | 10              | Not Detected |
| 1,1,1-Trichloroethane            | 10              | Not Detected |
| Carbon Tetrachloride             | 10              | Not Detected |
| Benzene                          | 10              | Not Detected |
| 1,2-Dichloroethane               | 10              | Not Detected |
| Trichloroethene                  | 10              | Not Detected |
| 1,2-Dichloropropane              | 10              | Not Detected |
| Bromodichloromethane             | 10              | Not Detected |
| trans-1,3-Dichloropropene        | 10              | Not Detected |
| 4-Methyl-2-pentanone             | 50              | Not Detected |
| Toluene                          | 10              | Not Detected |
| cis-1,3-Dichloropropene          | 10              | Not Detected |
| 1,1,2-Trichloroethane            | 10              | Not Detected |
| Tetrachloroethene                | 10              | 19           |
| 2-Hexanone                       | 50              | Not Detected |
| Dibromochloromethane             | 10              | Not Detected |
| Chlorobenzene                    | 10              | Not Detected |
| Ethyl Benzene                    | 10              | Not Detected |
| m,p-Xylene                       | 10              | Not Detected |
| o-Xylene                         | 10              | Not Detected |
| Styrene                          | 10              | Not Detected |
| Bromoform                        | 10              | Not Detected |
| 1,1,2,2-Tetrachloroethane        | 10              | Not Detected |
| 1,3-Dichlorobenzene              | 10              | Not Detected |
| 1,4-Dichlorobenzene              | 10              | Not Detected |
| 1,2-Dichlorobenzene              | 10              | Not Detected |
| cis-1,2-Dichloroethene           | 10              | Not Detected |

**TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported**

| Compound        | CAS Number | Match Quality | Amount (nG) |
|-----------------|------------|---------------|-------------|
| 2-Butenal, (E)- | 123-73-9   | 64 %          | 73          |
| Nonanal         | 124-19-6   | 56 %          | 120         |

000037

# AIR TOXICS LTD.

SAMPLE NAME : 11315 a&b

ID#: 9910471-04A/B

Modified VOST 5041A GC/MS Full Scan

|              |         |                     |          |
|--------------|---------|---------------------|----------|
| File Name:   | n111107 | Date of Collection: | 10/29/99 |
| Dil. Factor: | 1.00    | Date of Analysis:   | 11/11/99 |

## TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported

| Compound  | CAS Number | Match Quality | Amount (nG) |
|-----------|------------|---------------|-------------|
| Dodecanal | 112-54-9   | 50 %          | 51          |

Container Type: VOST Tube

| Surrogates            | % Recovery | Method Limits |
|-----------------------|------------|---------------|
| Dibromofluoromethane  | 100        | 72-135        |
| 1,2-Dichloroethane-d4 | 102        | 69-137        |
| Toluene-d8            | 101        | 77-124        |
| 4-Bromofluorobenzene  | 98         | 70-133        |

# AIR TOXICS LTD.

SAMPLE NAME : 11207 a&b

000097

ID#: 9910444-07A/B

Modified VOST 5041A GC/MS Full Scan

|              |         |                     |          |
|--------------|---------|---------------------|----------|
| File Name:   | h110906 | Date of Collection: | 10/28/99 |
| Dil. Factor: | 1.00    | Date of Analysis:   | 11/9/99  |

| Compound                         | Det. Limit (nG) | Amount (nG)  |
|----------------------------------|-----------------|--------------|
| Chloromethane                    | 10              | Not Detected |
| Vinyl Chloride                   | 10              | Not Detected |
| Bromomethane                     | 10              | Not Detected |
| Chloroethane                     | 10              | Not Detected |
| Freon 11                         | 10              | 44           |
| 1,1-Dichloroethene               | 10              | Not Detected |
| Carbon Disulfide                 | 10              | 30           |
| Acetone                          | 50              | Not Detected |
| Methylene Chloride               | 10              | Not Detected |
| trans-1,2-Dichloroethene         | 10              | Not Detected |
| 1,1-Dichloroethane               | 10              | Not Detected |
| Vinyl Acetate                    | 50              | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 50              | Not Detected |
| Chloroform                       | 10              | Not Detected |
| 1,1,1-Trichloroethane            | 10              | Not Detected |
| Carbon Tetrachloride             | 10              | Not Detected |
| Benzene                          | 10              | Not Detected |
| 1,2-Dichloroethane               | 10              | Not Detected |
| Trichloroethene                  | 10              | Not Detected |
| 1,2-Dichloropropane              | 10              | Not Detected |
| Bromodichloromethane             | 10              | Not Detected |
| trans-1,3-Dichloropropene        | 10              | Not Detected |
| 4-Methyl-2-pentanone             | 50              | Not Detected |
| Toluene                          | 10              | Not Detected |
| cis-1,3-Dichloropropene          | 10              | Not Detected |
| 1,1,2-Trichloroethane            | 10              | Not Detected |
| Tetrachloroethene                | 10              | Not Detected |
| 2-Hexanone                       | 50              | Not Detected |
| Dibromochloromethane             | 10              | Not Detected |
| Chlorobenzene                    | 10              | Not Detected |
| Ethyl Benzene                    | 10              | Not Detected |
| m,p-Xylene                       | 10              | Not Detected |
| o-Xylene                         | 10              | Not Detected |
| Styrene                          | 10              | Not Detected |
| Bromoform                        | 10              | Not Detected |
| 1,1,2,2-Tetrachloroethane        | 10              | Not Detected |
| 1,3-Dichlorobenzene              | 10              | Not Detected |
| 1,4-Dichlorobenzene              | 10              | Not Detected |
| 1,2-Dichlorobenzene              | 10              | Not Detected |
| cis-1,2-Dichloroethene           | 10              | Not Detected |

### TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported

| Compound | CAS Number | Match Quality | Amount (nG) |
|----------|------------|---------------|-------------|
| Octanal  | 124-13-0   | 58 %          | 82          |
| Nonanal  | 124-19-6   | 72 %          | 250         |

000098

# AIR TOXICS LTD.

SAMPLE NAME : 11207 a&b

ID#: 9910444-07A/B

Modified VOST 5041A GC/MS Full Scan

|              |         |                              |
|--------------|---------|------------------------------|
| File Name:   | h110906 | Date of Collection: 10/28/99 |
| Dil. Factor: | 1.00    | Date of Analysis: 11/9/99    |

## TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported

| Compound | CAS Number | Match Quality | Amount (nG) |
|----------|------------|---------------|-------------|
| Decanal  | 112-31-2   | 90 %          | 60          |

Container Type: VOST Tube

| Surrogates            | % Recovery | Method Limits |
|-----------------------|------------|---------------|
| Dibromofluoromethane  | 112        | 72-135        |
| 1,2-Dichloroethane-d4 | 137        | 69-137        |
| Toluene-d8            | 105        | 77-124        |
| 4-Bromofluorobenzene  | 119        | 70-133        |

000050

**AIR TOXICS LTD.**

SAMPLE NAME : 11317 a&amp;b

ID#: 9910471-05A/B

Modified VOST 5041A GC/MS Full Scan

|              |         |                     |          |
|--------------|---------|---------------------|----------|
| File Name:   | n111108 | Date of Collection: | 10/29/99 |
| Dil. Factor: | 1.00    | Date of Analysis:   | 11/11/99 |

| Compound                         | Det. Limit (nG) | Amount (nG)  |
|----------------------------------|-----------------|--------------|
| Chloromethane                    | 10              | Not Detected |
| Vinyl Chloride                   | 10              | Not Detected |
| Bromomethane                     | 10              | Not Detected |
| Chloroethane                     | 10              | Not Detected |
| Freon 11                         | 10              | 15           |
| 1,1-Dichloroethene               | 10              | Not Detected |
| Carbon Disulfide                 | 10              | Not Detected |
| Acetone                          | 50              | Not Detected |
| Methylene Chloride               | 10              | Not Detected |
| trans-1,2-Dichloroethene         | 10              | Not Detected |
| 1,1-Dichloroethane               | 10              | Not Detected |
| Vinyl Acetate                    | 50              | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 50              | Not Detected |
| Chloroform                       | 10              | Not Detected |
| 1,1,1-Trichloroethane            | 10              | Not Detected |
| Carbon Tetrachloride             | 10              | Not Detected |
| Benzene                          | 10              | Not Detected |
| 1,2-Dichloroethane               | 10              | Not Detected |
| Trichloroethene                  | 10              | Not Detected |
| 1,2-Dichloropropane              | 10              | Not Detected |
| Bromodichloromethane             | 10              | Not Detected |
| trans-1,3-Dichloropropene        | 10              | Not Detected |
| 4-Methyl-2-pentanone             | 50              | Not Detected |
| Toluene                          | 10              | 18           |
| cis-1,3-Dichloropropene          | 10              | Not Detected |
| 1,1,2-Trichloroethane            | 10              | Not Detected |
| Tetrachloroethene                | 10              | 28           |
| 2-Hexanone                       | 50              | Not Detected |
| Dibromochloromethane             | 10              | Not Detected |
| Chlorobenzene                    | 10              | Not Detected |
| Ethyl Benzene                    | 10              | Not Detected |
| m,p-Xylene                       | 10              | Not Detected |
| o-Xylene                         | 10              | Not Detected |
| Styrene                          | 10              | Not Detected |
| Bromoform                        | 10              | Not Detected |
| 1,1,2,2-Tetrachloroethane        | 10              | Not Detected |
| 1,3-Dichlorobenzene              | 10              | Not Detected |
| 1,4-Dichlorobenzene              | 10              | Not Detected |
| 1,2-Dichlorobenzene              | 10              | Not Detected |
| cis-1,2-Dichloroethene           | 10              | Not Detected |

## TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported

| Compound          | CAS Number | Match Quality | Amount (nG) |
|-------------------|------------|---------------|-------------|
| 1,2-Ethanedithiol | 540-63-6   | 50 %          | 120         |
| .alpha.-Pinene    | 80-56-8    | 86 %          | 9800        |

# AIR TOXICS LTD.

000051

SAMPLE NAME : 11317 a&b

ID#: 9910471-05A/B

Modified VOST 5041A GC/MS Full Scan

|              |         |                     |          |
|--------------|---------|---------------------|----------|
| File Name:   | n111108 | Date of Collection: | 10/29/99 |
| Dil. Factor: | 1.00    | Date of Analysis:   | 11/11/99 |

## TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported

| Compound                                 | CAS Number | Match Quality | Amount (nG) |
|--|------------|---------------|-------------|
| Camphene                                 | 79-92-5    | 94 %          | 1500        |
| Cyclohexene, 4-methylene-1-(1-methylethy | 99-84-3    | 91 %          | 280         |
| 1,3-Cyclohexadiene, 1-methyl-4-(1-methyl | 99-86-5    | 96 %          | 280         |
| Octanal                                  | 124-13-0   | 80 %          | 96          |
| Limonene                                 | 138-86-3   | 94 %          | 320         |
| Benzene, 1,2,3,4-tetramethyl-            | 488-23-3   | 91 %          | 120         |
| Cyclohexene, 1-methyl-4-(1-methylethylid | 586-62-9   | 96 %          | 94          |
| Nonanal                                  | 124-19-6   | 72 %          | 240         |

Container Type: VOST Tube

| Surrogates            | % Recovery | Method Limits |
|-----------------------|------------|---------------|
| Dibromofluoromethane  | 100        | 72-135        |
| 1,2-Dichloroethane-d4 | 110        | 69-137        |
| Toluene-d8            | 100        | 77-124        |
| 4-Bromofluorobenzene  | 104        | 70-133        |

# AIR TOXICS LTD.

000072

SAMPLE NAME : 11304 a&b

ID#: 9910471-06A/B

Modified VOST 5041A GC/MS Full Scan

|              |         |                     |          |
|--------------|---------|---------------------|----------|
| File Name:   | n111109 | Date of Collection: | 10/29/99 |
| Dil. Factor: | 1.00    | Date of Analysis:   | 11/11/99 |

| Compound                         | Det. Limit (nG) | Amount (nG)  |
|----------------------------------|-----------------|--------------|
| Chloromethane                    | 10              | Not Detected |
| Vinyl Chloride                   | 10              | Not Detected |
| Bromomethane                     | 10              | Not Detected |
| Chloroethane                     | 10              | Not Detected |
| Freon 11                         | 10              | 14           |
| 1,1-Dichloroethene               | 10              | Not Detected |
| Carbon Disulfide                 | 10              | 32           |
| Acetone                          | 50              | Not Detected |
| Methylene Chloride               | 10              | Not Detected |
| trans-1,2-Dichloroethene         | 10              | Not Detected |
| 1,1-Dichloroethane               | 10              | Not Detected |
| Vinyl Acetate                    | 50              | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 50              | Not Detected |
| Chloroform                       | 10              | Not Detected |
| 1,1,1-Trichloroethane            | 10              | Not Detected |
| Carbon Tetrachloride             | 10              | Not Detected |
| Benzene                          | 10              | Not Detected |
| 1,2-Dichloroethane               | 10              | Not Detected |
| Trichloroethene                  | 10              | Not Detected |
| 1,2-Dichloropropane              | 10              | Not Detected |
| Bromodichloromethane             | 10              | Not Detected |
| trans-1,3-Dichloropropene        | 10              | Not Detected |
| 4-Methyl-2-pentanone             | 50              | Not Detected |
| Toluene                          | 10              | 11           |
| cis-1,3-Dichloropropene          | 10              | Not Detected |
| 1,1,2-Trichloroethane            | 10              | Not Detected |
| Tetrachloroethene                | 10              | 36           |
| 2-Hexanone                       | 50              | Not Detected |
| Dibromochloromethane             | 10              | Not Detected |
| Chlorobenzene                    | 10              | Not Detected |
| Ethyl Benzene                    | 10              | Not Detected |
| m,p-Xylene                       | 10              | Not Detected |
| o-Xylene                         | 10              | Not Detected |
| Styrene                          | 10              | Not Detected |
| Bromoform                        | 10              | Not Detected |
| 1,1,2,2-Tetrachloroethane        | 10              | Not Detected |
| 1,3-Dichlorobenzene              | 10              | Not Detected |
| 1,4-Dichlorobenzene              | 10              | Not Detected |
| 1,2-Dichlorobenzene              | 10              | Not Detected |
| cis-1,2-Dichloroethene           | 10              | Not Detected |

**TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported**

| Compound       | CAS Number | Match Quality | Amount (nG) |
|----------------|------------|---------------|-------------|
| .alpha.-Pinene | 80-56-8    | 83 %          | 11000       |
| Camphene       | 79-92-5    | 94 %          | 1500        |

# AIR TOXICS LTD.

000073

SAMPLE NAME : 11304 a&b

ID#: 9910471-06A/B

Modified VOST 5041A GC/MS Full Scan

|              |         |                     |          |
|--------------|---------|---------------------|----------|
| File Name:   | n111109 | Date of Collection: | 10/29/99 |
| Dil. Factor: | 1.00    | Date of Analysis:   | 11/11/99 |

## TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported

| Compound                                 | CAS Number | Match Quality | Amount (nG) |
|--|------------|---------------|-------------|
| Cyclohexene, 4-methylene-1-(1-methylethy | 99-84-3    | 91 %          | 410         |
| 1,3-Cyclohexadiene, 1-methyl-4-(1-methyl | 99-86-5    | 96 %          | 110         |
| Limonene                                 | 138-86-3   | 94 %          | 280         |
| Benzene, methyl(1-methylethyl)-          | 25155-15-1 | 91 %          | 53          |
| Cyclohexene, 1-methyl-4-(1-methylethylid | 586-62-9   | 96 %          | 72          |
| Nonanal                                  | 124-19-6   | 83 %          | 83          |
| Bicyclo[2.2.1]heptane, 2-chloro-1,7,7-tr | 30462-53-4 | 91 %          | 54          |

Container Type: VOST Tube

| Surrogates            | % Recovery | Method Limits |
|-----------------------|------------|---------------|
| Dibromofluoromethane  | 100        | 72-135        |
| 1,2-Dichloroethane-d4 | 106        | 69-137        |
| Toluene-d8            | 101        | 77-124        |
| 4-Bromofluorobenzene  | 105        | 70-133        |

**AIR TOXICS LTD.**

SAMPLE NAME : 11217 a&amp;b

ID#: 9910432-08A/B

Modified VOST 5041A GC/MS Full Scan

|              |         |                              |
|--------------|---------|------------------------------|
| File Name:   | h110610 | Date of Collection: 10/27/99 |
| Dil. Factor: | 1.00    | Date of Analysis: 11/6/99    |

| Compound                         | Det. Limit (nG) | Amount (nG)  |
|----------------------------------|-----------------|--------------|
| Chloromethane                    | 10              | Not Detected |
| Vinyl Chloride                   | 10              | Not Detected |
| Bromomethane                     | 10              | Not Detected |
| Chloroethane                     | 10              | Not Detected |
| Freon 11                         | 10              | 31           |
| 1,1-Dichloroethene               | 10              | Not Detected |
| Carbon Disulfide                 | 10              | 24           |
| Acetone                          | 50              | 56           |
| Methylene Chloride               | 10              | Not Detected |
| trans-1,2-Dichloroethene         | 10              | Not Detected |
| 1,1-Dichloroethane               | 10              | Not Detected |
| Vinyl Acetate                    | 50              | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 50              | Not Detected |
| Chloroform                       | 10              | Not Detected |
| 1,1,1-Trichloroethane            | 10              | Not Detected |
| Carbon Tetrachloride             | 10              | Not Detected |
| Benzene                          | 10              | Not Detected |
| 1,2-Dichloroethane               | 10              | Not Detected |
| Trichloroethene                  | 10              | Not Detected |
| 1,2-Dichloropropane              | 10              | Not Detected |
| Bromodichloromethane             | 10              | Not Detected |
| trans-1,3-Dichloropropene        | 10              | Not Detected |
| 4-Methyl-2-pentanone             | 50              | Not Detected |
| Toluene                          | 10              | Not Detected |
| cis-1,3-Dichloropropene          | 10              | Not Detected |
| 1,1,2-Trichloroethane            | 10              | Not Detected |
| Tetrachloroethene                | 10              | Not Detected |
| 2-Hexanone                       | 50              | Not Detected |
| Dibromochloromethane             | 10              | Not Detected |
| Chlorobenzene                    | 10              | Not Detected |
| Ethyl Benzene                    | 10              | Not Detected |
| m,p-Xylene                       | 10              | Not Detected |
| o-Xylene                         | 10              | Not Detected |
| Styrene                          | 10              | Not Detected |
| Bromoform                        | 10              | Not Detected |
| 1,1,2,2-Tetrachloroethane        | 10              | Not Detected |
| 1,3-Dichlorobenzene              | 10              | Not Detected |
| 1,4-Dichlorobenzene              | 10              | Not Detected |
| 1,2-Dichlorobenzene              | 10              | Not Detected |
| cis-1,2-Dichloroethene           | 10              | Not Detected |

**TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported**

| Compound                   | CAS Number | Match Quality | Amount (nG) |
|----------------------------|------------|---------------|-------------|
| Methane, dichlorodifluoro- | 75-71-8    | 83 %          | 54          |
| 1-Octene                   | 111-66-0   | 64 %          | 480         |

000155

**AIR TOXICS LTD.**

SAMPLE NAME : 11217 a&amp;b

ID#: 9910432-08A/B

Modified VOST 5041A GC/MS Full Scan

|                     |         |                                     |
|---------------------|---------|-------------------------------------|
| <b>File Name:</b>   | h110610 | <b>Date of Collection:</b> 10/27/99 |
| <b>Dil. Factor:</b> | 1.00    | <b>Date of Analysis:</b> 11/6/99    |

| TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported |            |               |             |
|--|------------|---------------|-------------|
| Compound   | CAS Number | Match Quality | Amount (nG) |
| 3-Cyclohepten-1-one                                | 1121-64-8  | 91 %          | 2100        |
| Unknown  | NA         | NA            | 230         |
| Heptanal   | 111-71-7   | 43 %          | 68          |
| Nonane, 3-methylene-                               | 51655-64-2 | 38 %          | 91          |
| Octanal  | 124-13-0   | 58 %          | 120         |
| Nonanal  | 124-19-6   | 72 %          | 540         |
| Dodecanal  | 112-54-9   | 80 %          | 70          |
| 1,3-Benzodioxole, 5-(2-propenyl)-                  | 94-59-7    | 90 %          | 67          |

Container Type: VOST Tube

| Surrogates            | % Recovery | Method Limits |
|-----------------------|------------|---------------|
| Dibromofluoromethane  | 109        | 72-135        |
| 1,2-Dichloroethane-d4 | 129        | 69-137        |
| Toluene-d8            | 93         | 77-124        |
| 4-Bromofluorobenzene  | 116        | 70-133        |

# AIR TOXICS LTD.

000012

SAMPLE NAME : 11310 a&b

ID#: 9910444-02A/B

Modified VOST 5041A GC/MS Full Scan

|              |         |                     |          |
|--------------|---------|---------------------|----------|
| File Name:   | h110612 | Date of Collection: | 10/28/99 |
| Dil. Factor: | 1.00    | Date of Analysis:   | 11/6/99  |

| Compound                         | Det. Limit (nG) | Amount (nG)  |
|----------------------------------|-----------------|--------------|
| Chloromethane                    | 10              | Not Detected |
| Vinyl Chloride                   | 10              | Not Detected |
| Bromomethane                     | 10              | Not Detected |
| Chloroethane                     | 10              | Not Detected |
| Freon 11                         | 10              | 26           |
| 1,1-Dichloroethene               | 10              | Not Detected |
| Carbon Disulfide                 | 10              | 92           |
| Acetone                          | 50              | Not Detected |
| Methylene Chloride               | 10              | Not Detected |
| trans-1,2-Dichloroethene         | 10              | Not Detected |
| 1,1-Dichloroethane               | 10              | Not Detected |
| Vinyl Acetate                    | 50              | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 50              | Not Detected |
| Chloroform                       | 10              | Not Detected |
| 1,1,1-Trichloroethane            | 10              | Not Detected |
| Carbon Tetrachloride             | 10              | Not Detected |
| Benzene                          | 10              | Not Detected |
| 1,2-Dichloroethane               | 10              | Not Detected |
| Trichloroethene                  | 10              | Not Detected |
| 1,2-Dichloropropane              | 10              | Not Detected |
| Bromodichloromethane             | 10              | Not Detected |
| trans-1,3-Dichloropropene        | 10              | Not Detected |
| 4-Methyl-2-pentanone             | 50              | Not Detected |
| Toluene                          | 10              | Not Detected |
| cis-1,3-Dichloropropene          | 10              | Not Detected |
| 1,1,2-Trichloroethane            | 10              | Not Detected |
| Tetrachloroethene                | 10              | 17           |
| 2-Hexanone                       | 50              | Not Detected |
| Dibromochloromethane             | 10              | Not Detected |
| Chlorobenzene                    | 10              | Not Detected |
| Ethyl Benzene                    | 10              | Not Detected |
| m,p-Xylene                       | 10              | Not Detected |
| o-Xylene                         | 10              | Not Detected |
| Styrene                          | 10              | Not Detected |
| Bromoform                        | 10              | Not Detected |
| 1,1,2,2-Tetrachloroethane        | 10              | Not Detected |
| 1,3-Dichlorobenzene              | 10              | Not Detected |
| 1,4-Dichlorobenzene              | 10              | Not Detected |
| 1,2-Dichlorobenzene              | 10              | Not Detected |
| cis-1,2-Dichloroethene           | 10              | Not Detected |

### TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported

| Compound | CAS Number | Match Quality | Amount (nG) |
|----------|------------|---------------|-------------|
| Octanal  | 124-13-0   | 58 %          | 72          |
| Undecane | 1120-21-4  | 87 %          | 52          |

# AIR TOXICS LTD.

000013

SAMPLE NAME : 11310 a&b

ID#: 9910444-02A/B

Modified VOST 5041A GC/MS Full Scan

|              |         |                     |          |
|--------------|---------|---------------------|----------|
| File Name:   | h110612 | Date of Collection: | 10/28/99 |
| Dil. Factor: | 1.00    | Date of Analysis:   | 11/6/99  |

| TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported |            |               |             |
|--|------------|---------------|-------------|
| Compound   | CAS Number | Match Quality | Amount (ng) |
| Nonanal  | 124-19-6   | 53 %          | 140         |

Container Type: VOST Tube

| Surrogates            | % Recovery | Method Limits |
|-----------------------|------------|---------------|
| Dibromofluoromethane  | 108        | 72-135        |
| 1,2-Dichloroethane-d4 | 129        | 69-137        |
| Toluene-d8            | 111        | 77-124        |
| 4-Bromofluorobenzene  | 121        | 70-133        |

# AIR TOXICS LTD.

SAMPLE NAME : 11205 a&b

ID#: 9910444-03A/B

Modified VOST 5041A GC/MS Full Scan

000021

|                     |         |                            |          |
|---------------------|---------|----------------------------|----------|
| <b>File Name:</b>   | h110613 | <b>Date of Collection:</b> | 10/28/99 |
| <b>Dil. Factor:</b> | 1.00    | <b>Date of Analysis:</b>   | 11/6/99  |

| Compound                         | Det. Limit (nG) | Amount (nG)  |
|----------------------------------|-----------------|--------------|
| Chloromethane                    | 10              | Not Detected |
| Vinyl Chloride                   | 10              | Not Detected |
| Bromomethane                     | 10              | Not Detected |
| Chloroethane                     | 10              | Not Detected |
| Freon 11                         | 10              | 41           |
| 1,1-Dichloroethene               | 10              | Not Detected |
| Carbon Disulfide                 | 10              | 54           |
| Acetone                          | 50              | 65           |
| Methylene Chloride               | 10              | Not Detected |
| trans-1,2-Dichloroethene         | 10              | Not Detected |
| 1,1-Dichloroethane               | 10              | Not Detected |
| Vinyl Acetate                    | 50              | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 50              | Not Detected |
| Chloroform                       | 10              | Not Detected |
| 1,1,1-Trichloroethane            | 10              | Not Detected |
| Carbon Tetrachloride             | 10              | Not Detected |
| Benzene                          | 10              | Not Detected |
| 1,2-Dichloroethane               | 10              | Not Detected |
| Trichloroethene                  | 10              | Not Detected |
| 1,2-Dichloropropane              | 10              | Not Detected |
| Bromodichloromethane             | 10              | Not Detected |
| trans-1,3-Dichloropropene        | 10              | Not Detected |
| 4-Methyl-2-pentanone             | 50              | Not Detected |
| Toluene                          | 10              | Not Detected |
| cis-1,3-Dichloropropene          | 10              | Not Detected |
| 1,1,2-Trichloroethane            | 10              | Not Detected |
| Tetrachloroethene                | 10              | 14           |
| 2-Hexanone                       | 50              | Not Detected |
| Dibromochloromethane             | 10              | Not Detected |
| Chlorobenzene                    | 10              | Not Detected |
| Ethyl Benzene                    | 10              | Not Detected |
| m,p-Xylene                       | 10              | Not Detected |
| o-Xylene                         | 10              | Not Detected |
| Styrene                          | 10              | Not Detected |
| Bromoform                        | 10              | Not Detected |
| 1,1,2,2-Tetrachloroethane        | 10              | Not Detected |
| 1,3-Dichlorobenzene              | 10              | Not Detected |
| 1,4-Dichlorobenzene              | 10              | Not Detected |
| 1,2-Dichlorobenzene              | 10              | Not Detected |
| cis-1,2-Dichloroethene           | 10              | Not Detected |

### TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported

| Compound                   | CAS Number | Match Quality | Amount (nG) |
|----------------------------|------------|---------------|-------------|
| Methane, dichlorodifluoro- | 75-71-8    | 83 %          | 71          |
| Nonanal                    | 124-19-6   | 64 %          | 57          |

# AIR TOXICS LTD.

000027

SAMPLE NAME : 11205 a&b

ID#: 9910444-03A/B

Modified VOST 5041A GC/MS Full Scan

|              |         |                     |          |
|--------------|---------|---------------------|----------|
| File Name:   | h110613 | Date of Collection: | 10/28/99 |
| Dil. Factor: | 1.00    | Date of Analysis:   | 11/6/99  |

## TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported

| Compound | CAS Number | Match Quality | Amount (nG) |
|----------|------------|---------------|-------------|
|----------|------------|---------------|-------------|

Container Type: VOST Tube

| Surrogates            | % Recovery | Method Limits |
|-----------------------|------------|---------------|
| Dibromofluoromethane  | 111        | 72-135        |
| 1,2-Dichloroethane-d4 | 132        | 69-137        |
| Toluene-d8            | 111        | 77-124        |
| 4-Bromofluorobenzene  | 122        | 70-133        |

# AIR TOXICS LTD.

SAMPLE NAME : 11203 a&b

ID#: 9910444-04A/B

Modified VOST 5041A GC/MS Full Scan

000040

|                     |         |                            |          |
|---------------------|---------|----------------------------|----------|
| <b>File Name:</b>   | h110614 | <b>Date of Collection:</b> | 10/28/99 |
| <b>Dil. Factor:</b> | 1.00    | <b>Date of Analysis:</b>   | 11/6/99  |

| Compound                         | Det. Limit (nG) | Amount (nG)  |
|----------------------------------|-----------------|--------------|
| Chloromethane                    | 10              | Not Detected |
| Vinyl Chloride                   | 10              | Not Detected |
| Bromomethane                     | 10              | Not Detected |
| Chloroethane                     | 10              | Not Detected |
| Freon 11                         | 10              | 20           |
| 1,1-Dichloroethene               | 10              | Not Detected |
| Carbon Disulfide                 | 10              | 66           |
| Acetone                          | 50              | Not Detected |
| Methylene Chloride               | 10              | Not Detected |
| trans-1,2-Dichloroethene         | 10              | Not Detected |
| 1,1-Dichloroethane               | 10              | Not Detected |
| Vinyl Acetate                    | 50              | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 50              | Not Detected |
| Chloroform                       | 10              | Not Detected |
| 1,1,1-Trichloroethane            | 10              | Not Detected |
| Carbon Tetrachloride             | 10              | Not Detected |
| Benzene                          | 10              | Not Detected |
| 1,2-Dichloroethane               | 10              | Not Detected |
| Trichloroethene                  | 10              | Not Detected |
| 1,2-Dichloropropane              | 10              | Not Detected |
| Bromodichloromethane             | 10              | Not Detected |
| trans-1,3-Dichloropropene        | 10              | Not Detected |
| 4-Methyl-2-pentanone             | 50              | Not Detected |
| Toluene                          | 10              | Not Detected |
| cis-1,3-Dichloropropene          | 10              | Not Detected |
| 1,1,2-Trichloroethane            | 10              | Not Detected |
| Tetrachloroethene                | 10              | Not Detected |
| 2-Hexanone                       | 50              | Not Detected |
| Dibromochloromethane             | 10              | Not Detected |
| Chlorobenzene                    | 10              | Not Detected |
| Ethyl Benzene                    | 10              | Not Detected |
| m,p-Xylene                       | 10              | Not Detected |
| o-Xylene                         | 10              | Not Detected |
| Styrene                          | 10              | Not Detected |
| Bromoform                        | 10              | Not Detected |
| 1,1,2,2-Tetrachloroethane        | 10              | Not Detected |
| 1,3-Dichlorobenzene              | 10              | Not Detected |
| 1,4-Dichlorobenzene              | 10              | Not Detected |
| 1,2-Dichlorobenzene              | 10              | Not Detected |
| cis-1,2-Dichloroethene           | 10              | Not Detected |

### TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported

| Compound | CAS Number | Match Quality | Amount (nG) |
|----------|------------|---------------|-------------|
| Unknown  | NA         | NA            | 85          |
| Octanal  | 124-13-0   | 64 %          | 86          |

# AIR TOXICS LTD.

000041

SAMPLE NAME : 11203 a&b

ID#: 9910444-04A/B

Modified VOST 5041A GC/MS Full Scan

|              |         |                     |          |
|--------------|---------|---------------------|----------|
| File Name:   | h110614 | Date of Collection: | 10/28/99 |
| Dil. Factor: | 1.00    | Date of Analysis:   | 11/6/99  |

| TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported |            |               |             |
|--|------------|---------------|-------------|
| Compound   | CAS Number | Match Quality | Amount (nG) |
| Nonanal  | 124-19-6   | 59 %          | 230         |
| Decanal  | 112-31-2   | 90 %          | 71          |

Container Type: VOST Tube

| Surrogates            | % Recovery | Method Limits |
|-----------------------|------------|---------------|
| Dibromofluoromethane  | 107        | 72-135        |
| 1,2-Dichloroethane-d4 | 127        | 69-137        |
| Toluene-d8            | 108        | 77-124        |
| 4-Bromofluorobenzene  | 118        | 70-133        |

# AIR TOXICS LTD.

000024

SAMPLE NAME : 11311 a&b

ID#: 9910471-03A/B

Modified VOST 5041A GC/MS Full Scan

|              |         |                              |
|--------------|---------|------------------------------|
| File Name:   | n111106 | Date of Collection: 10/29/99 |
| Dil. Factor: | 1.00    | Date of Analysis: 11/11/99   |

| Compound                         | Det. Limit (nG) | Amount (nG)  |
|----------------------------------|-----------------|--------------|
| Chloromethane                    | 10              | Not Detected |
| Vinyl Chloride                   | 10              | Not Detected |
| Bromomethane                     | 10              | Not Detected |
| Chloroethane                     | 10              | Not Detected |
| Freon 11                         | 10              | 15           |
| 1,1-Dichloroethene               | 10              | Not Detected |
| Carbon Disulfide                 | 10              | Not Detected |
| Acetone                          | 50              | Not Detected |
| Methylene Chloride               | 10              | Not Detected |
| trans-1,2-Dichloroethene         | 10              | Not Detected |
| 1,1-Dichloroethane               | 10              | Not Detected |
| Vinyl Acetate                    | 50              | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 50              | Not Detected |
| Chloroform                       | 10              | Not Detected |
| 1,1,1-Trichloroethane            | 10              | Not Detected |
| Carbon Tetrachloride             | 10              | Not Detected |
| Benzene                          | 10              | Not Detected |
| 1,2-Dichloroethane               | 10              | Not Detected |
| Trichloroethene                  | 10              | Not Detected |
| 1,2-Dichloropropane              | 10              | Not Detected |
| Bromodichloromethane             | 10              | Not Detected |
| trans-1,3-Dichloropropene        | 10              | Not Detected |
| 4-Methyl-2-pentanone             | 50              | Not Detected |
| Toluene                          | 10              | Not Detected |
| cis-1,3-Dichloropropene          | 10              | Not Detected |
| 1,1,2-Trichloroethane            | 10              | Not Detected |
| Tetrachloroethene                | 10              | Not Detected |
| 2-Hexanone                       | 50              | Not Detected |
| Dibromochloromethane             | 10              | Not Detected |
| Chlorobenzene                    | 10              | Not Detected |
| Ethyl Benzene                    | 10              | Not Detected |
| m,p-Xylene                       | 10              | Not Detected |
| o-Xylene                         | 10              | Not Detected |
| Styrene                          | 10              | Not Detected |
| Bromoform                        | 10              | Not Detected |
| 1,1,2,2-Tetrachloroethane        | 10              | Not Detected |
| 1,3-Dichlorobenzene              | 10              | Not Detected |
| 1,4-Dichlorobenzene              | 10              | Not Detected |
| 1,2-Dichlorobenzene              | 10              | Not Detected |
| cis-1,2-Dichloroethene           | 10              | Not Detected |

**TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported**

| Compound | CAS Number | Match Quality | Amount (nG) |
|----------|------------|---------------|-------------|
| Unknown  | NA         | NA            | 96          |
| Nonanal  | 124-19-6   | 56 %          | 180         |

# AIR TOXICS LTD.

000025

SAMPLE NAME : 11311 a&b

ID#: 9910471-03A/B

Modified VOST 5041A GC/MS Full Scan

|              |         |                     |          |
|--------------|---------|---------------------|----------|
| File Name:   | n111106 | Date of Collection: | 10/29/99 |
| Dil. Factor: | 1.00    | Date of Analysis:   | 11/11/99 |

| TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported |            |               |             |
|--|------------|---------------|-------------|
| Compound   | CAS Number | Match Quality | Amount (nG) |
| Dodecanal  | 112-54-9   | 53 %          | 72          |

Container Type: VOST Tube

| Surrogates            | % Recovery | Method Limits |
|-----------------------|------------|---------------|
| Dibromofluoromethane  | 102        | 72-135        |
| 1,2-Dichloroethane-d4 | 112        | 69-137        |
| Toluene-d8            | 98         | 77-124        |
| 4-Bromofluorobenzene  | 98         | 70-133        |

# AIR TOXICS LTD.

SAMPLE NAME : 11212 a&b

ID#: 9910444-06A/B

000074

Modified VOST 5041A GC/MS Full Scan

|              |         |                     |          |
|--------------|---------|---------------------|----------|
| File Name:   | h110616 | Date of Collection: | 10/28/99 |
| Dil. Factor: | 1.00    | Date of Analysis:   | 11/6/99  |

| Compound                         | Det. Limit (nG) | Amount (nG)  |
|----------------------------------|-----------------|--------------|
| Chloromethane                    | 10              | Not Detected |
| Vinyl Chloride                   | 10              | Not Detected |
| Bromomethane                     | 10              | Not Detected |
| Chloroethane                     | 10              | Not Detected |
| Freon 11                         | 10              | 20           |
| 1,1-Dichloroethene               | 10              | Not Detected |
| Carbon Disulfide                 | 10              | 22           |
| Acetone                          | 50              | 140          |
| Methylene Chloride               | 10              | Not Detected |
| trans-1,2-Dichloroethene         | 10              | Not Detected |
| 1,1-Dichloroethane               | 10              | Not Detected |
| Vinyl Acetate                    | 50              | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 50              | Not Detected |
| Chloroform                       | 10              | Not Detected |
| 1,1,1-Trichloroethane            | 10              | Not Detected |
| Carbon Tetrachloride             | 10              | Not Detected |
| Benzene                          | 10              | Not Detected |
| 1,2-Dichloroethane               | 10              | Not Detected |
| Trichloroethene                  | 10              | Not Detected |
| 1,2-Dichloropropane              | 10              | Not Detected |
| Bromodichloromethane             | 10              | Not Detected |
| trans-1,3-Dichloropropene        | 10              | Not Detected |
| 4-Methyl-2-pentanone             | 50              | Not Detected |
| Toluene                          | 10              | Not Detected |
| cis-1,3-Dichloropropene          | 10              | Not Detected |
| 1,1,2-Trichloroethane            | 10              | Not Detected |
| Tetrachloroethene                | 10              | Not Detected |
| 2-Hexanone                       | 50              | Not Detected |
| Dibromochloromethane             | 10              | Not Detected |
| Chlorobenzene                    | 10              | Not Detected |
| Ethyl Benzene                    | 10              | Not Detected |
| m,p-Xylene                       | 10              | Not Detected |
| o-Xylene                         | 10              | Not Detected |
| Styrene                          | 10              | Not Detected |
| Bromoform                        | 10              | Not Detected |
| 1,1,2,2-Tetrachloroethane        | 10              | Not Detected |
| 1,3-Dichlorobenzene              | 10              | Not Detected |
| 1,4-Dichlorobenzene              | 10              | Not Detected |
| 1,2-Dichlorobenzene              | 10              | Not Detected |
| cis-1,2-Dichloroethene           | 10              | Not Detected |

### TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported

| Compound                         | CAS Number | Match Quality | Amount (nG) |
|----------------------------------|------------|---------------|-------------|
| Propane, 1,1,1,3,3,3-hexafluoro- | 690-39-1   | 74 %          | 87          |
| Propane, 2,2-dimethyl-           | 463-82-1   | 72 %          | 18000       |

# AIR TOXICS LTD.

SAMPLE NAME : 11212 a&b

ID#: 9910444-06A/B

Modified VOST 5041A GC/MS Full Scan

000075

|                     |                |                                     |
|---------------------|----------------|-------------------------------------|
| <b>File Name:</b>   | <b>h110616</b> | <b>Date of Collection:</b> 10/28/99 |
| <b>Dil. Factor:</b> | <b>1.00</b>    | <b>Date of Analysis:</b> 11/6/99    |

## TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported

| Compound                                 | CAS Number | Match Quality | Amount (nG) |
|--|------------|---------------|-------------|
| Hexane, 2,2-dimethyl-                    | 590-73-8   | 64 %          | 96          |
| Bicyclo[4.1.0]heptane, 7-methylene-      | 54211-14-2 | 53 %          | 74          |
| 1,3,6-Heptatriene, 2,5,5-trimethyl-      | 29548-02-5 | 93 %          | 120         |
| 1,3,7-Octatriene, 3,7-dimethyl-          | 502-99-8   | 56 %          | 1600        |
| Octanal                                  | 124-13-0   | 72 %          | 99          |
| Nonanal                                  | 124-19-6   | 72 %          | 270         |
| Hexadecanol                              | 29354-98-1 | 53 %          | 76          |
| Tridecane                                | 629-50-5   | 94 %          | 140         |
| Butanoic acid, 3,7-dimethyl-2,6-octadien | 106-29-6   | 59 %          | 120         |

Container Type: VOST Tube

| Surrogates            | % Recovery | Method Limits |
|-----------------------|------------|---------------|
| Dibromofluoromethane  | 113        | 72-135        |
| 1,2-Dichloroethane-d4 | 129        | 69-137        |
| Toluene-d8            | 107        | 77-124        |
| 4-Bromofluorobenzene  | 116        | 70-133        |

**AIR TOXICS LTD.**

SAMPLE NAME : 11216 a&amp;b

ID#: 9910432-04A/B

Modified VOST 5041A GC/MS Full Scan

|              |         |                     |          |
|--------------|---------|---------------------|----------|
| File Name:   | h110606 | Date of Collection: | 10/27/99 |
| Dil. Factor: | 1.00    | Date of Analysis:   | 11/6/99  |

| Compound                         | Det. Limit (nG) | Amount (nG)  |
|----------------------------------|-----------------|--------------|
| Chloromethane                    | 10              | Not Detected |
| Vinyl Chloride                   | 10              | Not Detected |
| Bromomethane                     | 10              | Not Detected |
| Chloroethane                     | 10              | Not Detected |
| Freon 11                         | 10              | 23           |
| 1,1-Dichloroethene               | 10              | Not Detected |
| Carbon Disulfide                 | 10              | 19           |
| Acetone                          | 50              | Not Detected |
| Methylene Chloride               | 10              | Not Detected |
| trans-1,2-Dichloroethene         | 10              | Not Detected |
| 1,1-Dichloroethane               | 10              | Not Detected |
| Vinyl Acetate                    | 50              | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 50              | Not Detected |
| Chloroform                       | 10              | Not Detected |
| 1,1,1-Trichloroethane            | 10              | 18           |
| Carbon Tetrachloride             | 10              | Not Detected |
| Benzene                          | 10              | Not Detected |
| 1,2-Dichloroethane               | 10              | Not Detected |
| Trichloroethene                  | 10              | Not Detected |
| 1,2-Dichloropropane              | 10              | Not Detected |
| Bromodichloromethane             | 10              | Not Detected |
| trans-1,3-Dichloropropene        | 10              | Not Detected |
| 4-Methyl-2-pentanone             | 50              | Not Detected |
| Toluene                          | 10              | Not Detected |
| cis-1,3-Dichloropropene          | 10              | Not Detected |
| 1,1,2-Trichloroethane            | 10              | Not Detected |
| Tetrachloroethene                | 10              | Not Detected |
| 2-Hexanone                       | 50              | Not Detected |
| Dibromochloromethane             | 10              | Not Detected |
| Chlorobenzene                    | 10              | Not Detected |
| Ethyl Benzene                    | 10              | Not Detected |
| m,p-Xylene                       | 10              | Not Detected |
| o-Xylene                         | 10              | Not Detected |
| Styrene                          | 10              | Not Detected |
| Bromoform                        | 10              | Not Detected |
| 1,1,2,2-Tetrachloroethane        | 10              | Not Detected |
| 1,3-Dichlorobenzene              | 10              | Not Detected |
| 1,4-Dichlorobenzene              | 10              | Not Detected |
| 1,2-Dichlorobenzene              | 10              | Not Detected |
| cis-1,2-Dichloroethene           | 10              | Not Detected |

**TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported**

| Compound                   | CAS Number | Match Quality | Amount (nG) |
|----------------------------|------------|---------------|-------------|
| Methane, dichlorodifluoro- | 75-71-8    | 83 %          | 29          |
| Unknown                    | NA         | NA            | 26          |

000059

**AIR TOXICS LTD.**

SAMPLE NAME : 11216 a&amp;b

ID#: 9910432-04A/B

Modified VOST 5041A GC/MS Full Scan

|                     |                |                                     |
|---------------------|----------------|-------------------------------------|
| <b>File Name:</b>   | <b>h110606</b> | <b>Date of Collection:</b> 10/27/99 |
| <b>Dil. Factor:</b> | <b>1.00</b>    | <b>Date of Analysis:</b> 11/6/99    |

| TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported |            |               |             |
|--|------------|---------------|-------------|
| Compound   | CAS Number | Match Quality | Amount (nG) |
| Ethane, 1-chloro-1,1-difluoro-                     | 75-68-3    | 43 %          | 290         |
| Trisilane  | 7783-26-8  | 96 %          | 79          |
| Heptanal   | 111-71-7   | 49 %          | 47          |
| Octanal  | 124-13-0   | 68 %          | 84          |
| Nonanal  | 124-19-6   | 72 %          | 200         |
| Decanal  | 112-31-2   | 59 %          | 78          |
| 1,3-Benzodioxole, 5-(1-propenyl)-                  | 120-58-1   | 95 %          | 140         |

Container Type: VOST Tube

| Surrogates            | % Recovery | Method Limits |
|-----------------------|------------|---------------|
| Dibromofluoromethane  | 107        | 72-135        |
| 1,2-Dichloroethane-d4 | 122        | 69-137        |
| Toluene-d8            | 105        | 77-124        |
| 4-Bromofluorobenzene  | 112        | 70-133        |

00003

**AIR TOXICS LTD.**

SAMPLE NAME : 11016 a&amp;b

ID#: 9910332-03A/B

Modified VOST 5041A GC/MS Full Scan

|              |         |                     |          |
|--------------|---------|---------------------|----------|
| File Name:   | h110314 | Date of Collection: | 10/22/99 |
| Dil. Factor: | 1.00    | Date of Analysis:   | 11/3/99  |

| Compound                         | Det. Limit<br>(nG) | Det. Limit<br>(uG/m3) | Amount<br>(nG) | Amount<br>(uG/m3) |
|----------------------------------|--------------------|-----------------------|----------------|-------------------|
| Chloromethane                    | 10                 | 21                    | Not Detected   | Not Detected      |
| Vinyl Chloride                   | 10                 | 26                    | Not Detected   | Not Detected      |
| Bromomethane                     | 10                 | 39                    | Not Detected   | Not Detected      |
| Chloroethane                     | 10                 | 27                    | Not Detected   | Not Detected      |
| Freon 11                         | 10                 | 57                    | 12             | 69                |
| 1,1-Dichloroethene               | 10                 | 40                    | Not Detected   | Not Detected      |
| Carbon Disulfide                 | 10                 | 32                    | Not Detected   | Not Detected      |
| Acetone                          | 50                 | 120                   | Not Detected   | Not Detected      |
| Methylene Chloride               | 10                 | 35                    | Not Detected   | Not Detected      |
| trans-1,2-Dichloroethene         | 10                 | 40                    | Not Detected   | Not Detected      |
| 1,1-Dichloroethane               | 10                 | 41                    | Not Detected   | Not Detected      |
| Vinyl Acetate                    | 50                 | 180                   | Not Detected   | Not Detected      |
| 2-Butanone (Methyl Ethyl Ketone) | 50                 | 150                   | Not Detected   | Not Detected      |
| Chloroform                       | 10                 | 50                    | Not Detected   | Not Detected      |
| 1,1,1-Trichloroethane            | 10                 | 55                    | Not Detected   | Not Detected      |
| Carbon Tetrachloride             | 10                 | 64                    | 10             | 66                |
| Benzene                          | 10                 | 32                    | Not Detected   | Not Detected      |
| 1,2-Dichloroethane               | 10                 | 41                    | Not Detected   | Not Detected      |
| Trichloroethene                  | 10                 | 55                    | Not Detected   | Not Detected      |
| 1,2-Dichloropropane              | 10                 | 47                    | Not Detected   | Not Detected      |
| Bromodichloromethane             | 10                 | 68                    | Not Detected   | Not Detected      |
| trans-1,3-Dichloropropene        | 10                 | 46                    | Not Detected   | Not Detected      |
| 4-Methyl-2-pentanone             | 50                 | 210                   | Not Detected   | Not Detected      |
| Toluene                          | 10                 | 38                    | Not Detected   | Not Detected      |
| cis-1,3-Dichloropropene          | 10                 | 46                    | Not Detected   | Not Detected      |
| 1,1,2-Trichloroethane            | 10                 | 55                    | Not Detected   | Not Detected      |
| Tetrachloroethene                | 10                 | 69                    | Not Detected   | Not Detected      |
| 2-Hexanone                       | 50                 | 210                   | Not Detected   | Not Detected      |
| Dibromochloromethane             | 10                 | 86                    | Not Detected   | Not Detected      |
| Chlorobenzene                    | 10                 | 47                    | Not Detected   | Not Detected      |
| Ethyl Benzene                    | 10                 | 44                    | Not Detected   | Not Detected      |
| m,p-Xylene                       | 10                 | 44                    | Not Detected   | Not Detected      |
| o-Xylene                         | 10                 | 44                    | Not Detected   | Not Detected      |
| Styrene                          | 10                 | 43                    | Not Detected   | Not Detected      |
| Bromoform                        | 10                 | 100                   | Not Detected   | Not Detected      |
| 1,1,2,2-Tetrachloroethane        | 10                 | 70                    | Not Detected   | Not Detected      |
| 1,3-Dichlorobenzene              | 10                 | 61                    | Not Detected   | Not Detected      |
| 1,4-Dichlorobenzene              | 10                 | 61                    | Not Detected   | Not Detected      |
| 1,2-Dichlorobenzene              | 10                 | 61                    | Not Detected   | Not Detected      |
| cis-1,2-Dichloroethene           | 10                 | 40                    | Not Detected   | Not Detected      |

000037

**AIR TOXICS LTD.**

SAMPLE NAME : 11016 a&amp;b

ID#: 9910332-03A/B

Modified VOST 5041A GC/MS Full Scan

|                     |         |                            |          |
|---------------------|---------|----------------------------|----------|
| <b>File Name:</b>   | h110314 | <b>Date of Collection:</b> | 10/22/99 |
| <b>Dil. Factor:</b> | 1.00    | <b>Date of Analysis:</b>   | 11/3/99  |

## TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported

| Compound                 | CAS Number | Match Quality | Amount (nG) |
|--------------------------|------------|---------------|-------------|
| Octane, 2,2,6-trimethyl- | 62016-28-8 | 64 %          | 66          |

Container Type: VOST Tube

| Surrogates            | % Recovery | Method Limits |
|-----------------------|------------|---------------|
| Dibromofluoromethane  | 95         | 72-135        |
| 1,2-Dichloroethane-d4 | 85         | 69-137        |
| Toluene-d8            | 101        | 77-124        |
| 4-Bromofluorobenzene  | 104        | 70-133        |

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**AIR TOXICS LTD.**

SAMPLE NAME : 11109 a&amp;b

ID#: 9910332-04A/B

Modified VOST 5041A GC/MS Full Scan

|              |         |                     |          |
|--------------|---------|---------------------|----------|
| File Name:   | h110315 | Date of Collection: | 10/22/99 |
| Dil. Factor: | 1.00    | Date of Analysis:   | 11/3/99  |

| Compound                         | Det. Limit<br>(nG) | Det. Limit<br>(uG/m3) | Amount<br>(nG) | Amount<br>(uG/m3) |
|----------------------------------|--------------------|-----------------------|----------------|-------------------|
| Chloromethane                    | 10                 | 21                    | Not Detected   | Not Detected      |
| Vinyl Chloride                   | 10                 | 26                    | Not Detected   | Not Detected      |
| Bromomethane                     | 10                 | 39                    | Not Detected   | Not Detected      |
| Chloroethane                     | 10                 | 27                    | Not Detected   | Not Detected      |
| Freon 11                         | 10                 | 57                    | 17             | 96                |
| 1,1-Dichloroethene               | 10                 | 40                    | Not Detected   | Not Detected      |
| Carbon Disulfide                 | 10                 | 32                    | 14             | 44                |
| Acetone                          | 50                 | 120                   | Not Detected   | Not Detected      |
| Methylene Chloride               | 10                 | 35                    | Not Detected   | Not Detected      |
| trans-1,2-Dichloroethene         | 10                 | 40                    | Not Detected   | Not Detected      |
| 1,1-Dichloroethane               | 10                 | 41                    | Not Detected   | Not Detected      |
| Vinyl Acetate                    | 50                 | 180                   | Not Detected   | Not Detected      |
| 2-Butanone (Methyl Ethyl Ketone) | 50                 | 150                   | Not Detected   | Not Detected      |
| Chloroform                       | 10                 | 50                    | Not Detected   | Not Detected      |
| 1,1,1-Trichloroethane            | 10                 | 55                    | Not Detected   | Not Detected      |
| Carbon Tetrachloride             | 10                 | 64                    | 12             | 77                |
| Benzene                          | 10                 | 32                    | Not Detected   | Not Detected      |
| 1,2-Dichloroethane               | 10                 | 41                    | Not Detected   | Not Detected      |
| Trichloroethene                  | 10                 | 55                    | Not Detected   | Not Detected      |
| 1,2-Dichloropropane              | 10                 | 47                    | Not Detected   | Not Detected      |
| Bromodichloromethane             | 10                 | 68                    | Not Detected   | Not Detected      |
| trans-1,3-Dichloropropene        | 10                 | 46                    | Not Detected   | Not Detected      |
| 4-Methyl-2-pentanone             | 50                 | 210                   | Not Detected   | Not Detected      |
| Toluene                          | 10                 | 38                    | 12             | 44                |
| cis-1,3-Dichloropropene          | 10                 | 46                    | Not Detected   | Not Detected      |
| 1,1,2-Trichloroethane            | 10                 | 55                    | Not Detected   | Not Detected      |
| Tetrachloroethene                | 10                 | 69                    | Not Detected   | Not Detected      |
| 2-Hexanone                       | 50                 | 210                   | Not Detected   | Not Detected      |
| Dibromochloromethane             | 10                 | 86                    | Not Detected   | Not Detected      |
| Chlorobenzene                    | 10                 | 47                    | Not Detected   | Not Detected      |
| Ethyl Benzene                    | 10                 | 44                    | Not Detected   | Not Detected      |
| m,p-Xylene                       | 10                 | 44                    | Not Detected   | Not Detected      |
| o-Xylene                         | 10                 | 44                    | Not Detected   | Not Detected      |
| Styrene                          | 10                 | 43                    | Not Detected   | Not Detected      |
| Bromoform                        | 10                 | 100                   | Not Detected   | Not Detected      |
| 1,1,2,2-Tetrachloroethane        | 10                 | 70                    | Not Detected   | Not Detected      |
| 1,3-Dichlorobenzene              | 10                 | 61                    | Not Detected   | Not Detected      |
| 1,4-Dichlorobenzene              | 10                 | 61                    | Not Detected   | Not Detected      |
| 1,2-Dichlorobenzene              | 10                 | 61                    | Not Detected   | Not Detected      |
| cis-1,2-Dichloroethene           | 10                 | 40                    | Not Detected   | Not Detected      |

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**AIR TOXICS LTD.**

SAMPLE NAME : 11109 a&amp;b

ID#: 9910332-04A/B

Modified VOST 5041A GC/MS Full Scan

|                     |         |                                     |
|---------------------|---------|-------------------------------------|
| <b>File Name:</b>   | h110315 | <b>Date of Collection:</b> 10/22/99 |
| <b>Dil. Factor:</b> | 1.00    | <b>Date of Analysis:</b> 11/3/99    |

## TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported

| Compound                       | CAS Number | Match Quality | Amount (nG) |
|--------------------------------|------------|---------------|-------------|
| Cyclopentanol, 2-methyl-, cis- | 25144-05-2 | 55 %          | 76          |
| Nonanal                        | 124-19-6   | 78 %          | 160         |

Container Type: VOST Tube

| Surrogates            | % Recovery | Method Limits |
|-----------------------|------------|---------------|
| Dibromofluoromethane  | 94         | 72-135        |
| 1,2-Dichloroethane-d4 | 84         | 69-137        |
| Toluene-d8            | 103        | 77-124        |
| 4-Bromofluorobenzene  | 107        | 70-133        |

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**AIR TOXICS LTD.**

SAMPLE NAME : 11219 a&amp;b

ID#: 9910432-06A/B

Modified VOST 5041A GC/MS Full Scan

|                     |         |                                     |
|---------------------|---------|-------------------------------------|
| <b>File Name:</b>   | h110608 | <b>Date of Collection:</b> 10/27/99 |
| <b>Dil. Factor:</b> | 1.00    | <b>Date of Analysis:</b> 11/6/99    |

| Compound                         | Det. Limit (nG) | Amount (nG)  |
|----------------------------------|-----------------|--------------|
| Chloromethane                    | 10              | Not Detected |
| Vinyl Chloride                   | 10              | Not Detected |
| Bromomethane                     | 10              | Not Detected |
| Chloroethane                     | 10              | Not Detected |
| Freon 11                         | 10              | 24           |
| 1,1-Dichloroethene               | 10              | Not Detected |
| Carbon Disulfide                 | 10              | Not Detected |
| Acetone                          | 50              | Not Detected |
| Methylene Chloride               | 10              | 13           |
| trans-1,2-Dichloroethene         | 10              | Not Detected |
| 1,1-Dichloroethane               | 10              | Not Detected |
| Vinyl Acetate                    | 50              | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 50              | Not Detected |
| Chloroform                       | 10              | Not Detected |
| 1,1,1-Trichloroethane            | 10              | Not Detected |
| Carbon Tetrachloride             | 10              | 11           |
| Benzene                          | 10              | 16           |
| 1,2-Dichloroethane               | 10              | Not Detected |
| Trichloroethene                  | 10              | Not Detected |
| 1,2-Dichloropropane              | 10              | Not Detected |
| Bromodichloromethane             | 10              | Not Detected |
| trans-1,3-Dichloropropene        | 10              | Not Detected |
| 4-Methyl-2-pentanone             | 50              | Not Detected |
| Toluene                          | 10              | 57           |
| cis-1,3-Dichloropropene          | 10              | Not Detected |
| 1,1,2-Trichloroethane            | 10              | Not Detected |
| Tetrachloroethene                | 10              | Not Detected |
| 2-Hexanone                       | 50              | Not Detected |
| Dibromochloromethane             | 10              | Not Detected |
| Chlorobenzene                    | 10              | Not Detected |
| Ethyl Benzene                    | 10              | Not Detected |
| m,p-Xylene                       | 10              | 24           |
| o-Xylene                         | 10              | Not Detected |
| Styrene                          | 10              | 35           |
| Bromoform                        | 10              | Not Detected |
| 1,1,2,2-Tetrachloroethane        | 10              | Not Detected |
| 1,3-Dichlorobenzene              | 10              | Not Detected |
| 1,4-Dichlorobenzene              | 10              | Not Detected |
| 1,2-Dichlorobenzene              | 10              | Not Detected |
| cis-1,2-Dichloroethene           | 10              | Not Detected |

**TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported**

| Compound                   | CAS Number | Match Quality | Amount (nG) |
|----------------------------|------------|---------------|-------------|
| 2-Butenal, (E)-            | 123-73-9   | 64 %          | 49          |
| Methane, dichlorodifluoro- | 75-71-8    | 78 %          | 26          |

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**AIR TOXICS LTD.**

SAMPLE NAME : 11219 a&amp;b

ID#: 9910432-06A/B

Modified VOST 5041A GC/MS Full Scan

|                     |                |                                     |
|---------------------|----------------|-------------------------------------|
| <b>File Name:</b>   | <b>h110608</b> | <b>Date of Collection:</b> 10/27/99 |
| <b>Dil. Factor:</b> | <b>1.00</b>    | <b>Date of Analysis:</b> 11/6/99    |

| TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported |            |               |             |
|--|------------|---------------|-------------|
| Compound   | CAS Number | Match Quality | Amount (nG) |
| Octane, 2,2,6-trimethyl-                           | 62016-28-8 | 78 %          | 150         |
| Nonane, 2,2,3-trimethyl-                           | 55499-04-2 | 59 %          | 47          |
| Decane, 2,2-dimethyl-                              | 17302-37-3 | 72 %          | 52          |
| Undecane, 4,6-dimethyl-                            | 17312-82-2 | 72 %          | 55          |
| Nonanal  | 124-19-6   | 47 %          | 32          |

Container Type: VOST Tube

| Surrogates            | % Recovery | Method Limits |
|-----------------------|------------|---------------|
| Dibromofluoromethane  | 111        | 72-135        |
| 1,2-Dichloroethane-d4 | 129        | 69-137        |
| Toluene-d8            | 104        | 77-124        |
| 4-Bromofluorobenzene  | 114        | 70-133        |

**AIR TOXICS LTD.**

SAMPLE NAME : 11213 a&amp;b

ID#: 9910432-07A/B

Modified VOST 5041A GC/MS Full Scan

|                     |                |                                     |
|---------------------|----------------|-------------------------------------|
| <b>File Name:</b>   | <b>h110609</b> | <b>Date of Collection:</b> 10/27/99 |
| <b>Dil. Factor:</b> | <b>1.00</b>    | <b>Date of Analysis:</b> 11/6/99    |

| Compound                         | Det. Limit (nG) | Amount (nG)  |
|----------------------------------|-----------------|--------------|
| Chloromethane                    | 10              | 14           |
| Vinyl Chloride                   | 10              | Not Detected |
| Bromomethane                     | 10              | Not Detected |
| Chloroethane                     | 10              | Not Detected |
| Freon 11                         | 10              | 27           |
| 1,1-Dichloroethene               | 10              | Not Detected |
| Carbon Disulfide                 | 10              | 30           |
| Acetone                          | 50              | 74           |
| Methylene Chloride               | 10              | 18           |
| trans-1,2-Dichloroethene         | 10              | Not Detected |
| 1,1-Dichloroethane               | 10              | Not Detected |
| Vinyl Acetate                    | 50              | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 50              | Not Detected |
| Chloroform                       | 10              | Not Detected |
| 1,1,1-Trichloroethane            | 10              | Not Detected |
| Carbon Tetrachloride             | 10              | 11           |
| Benzene                          | 10              | 15           |
| 1,2-Dichloroethane               | 10              | Not Detected |
| Trichloroethene                  | 10              | Not Detected |
| 1,2-Dichloropropane              | 10              | Not Detected |
| Bromodichloromethane             | 10              | Not Detected |
| trans-1,3-Dichloropropene        | 10              | Not Detected |
| 4-Methyl-2-pentanone             | 50              | Not Detected |
| Toluene                          | 10              | 52           |
| cis-1,3-Dichloropropene          | 10              | Not Detected |
| 1,1,2-Trichloroethane            | 10              | Not Detected |
| Tetrachloroethene                | 10              | Not Detected |
| 2-Hexanone                       | 50              | Not Detected |
| Dibromochloromethane             | 10              | Not Detected |
| Chlorobenzene                    | 10              | Not Detected |
| Ethyl Benzene                    | 10              | Not Detected |
| m,p-Xylene                       | 10              | 17           |
| o-Xylene                         | 10              | Not Detected |
| Styrene                          | 10              | 21           |
| Bromoform                        | 10              | Not Detected |
| 1,1,2,2-Tetrachloroethane        | 10              | Not Detected |
| 1,3-Dichlorobenzene              | 10              | Not Detected |
| 1,4-Dichlorobenzene              | 10              | Not Detected |
| 1,2-Dichlorobenzene              | 10              | Not Detected |
| cis-1,2-Dichloroethene           | 10              | Not Detected |

**TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported**

| Compound                   | CAS Number | Match Quality | Amount (nG) |
|----------------------------|------------|---------------|-------------|
| 1-Propene                  | 115-07-1   | 53 %          | 27          |
| Methane, dichlorodifluoro- | 75-71-8    | 83 %          | 56          |

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**AIR TOXICS LTD.**

SAMPLE NAME : 11213 a&amp;b

ID#: 9910432-07A/B

Modified VOST 5041A GC/MS Full Scan

|              |         |                     |          |
|--------------|---------|---------------------|----------|
| File Name:   | h110609 | Date of Collection: | 10/27/99 |
| Dil. Factor: | 1.00    | Date of Analysis:   | 11/6/99  |

| TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported |            |               |             |
|--|------------|---------------|-------------|
| Compound   | CAS Number | Match Quality | Amount (nG) |
| Octane   | 111-65-9   | 74 %          | 38          |
| Hexanal  | 66-25-1    | 83 %          | 58          |
| Heptanal   | 111-71-7   | 43 %          | 78          |
| Heptane, 2,2,4-trimethyl-                          | 14720-74-2 | 64 %          | 45          |
| Octanal  | 124-13-0   | 47 %          | 120         |
| Nonanal  | 124-19-6   | 72 %          | 680         |
| Dodecanal  | 112-54-9   | 59 %          | 130         |
| 1,3-Benzodioxole, 5-(2-propenyl)-                  | 94-59-7    | 93 %          | 140         |

Container Type: VOST Tube

| Surrogates            | % Recovery | Method Limits |
|-----------------------|------------|---------------|
| Dibromofluoromethane  | 109        | 72-135        |
| 1,2-Dichloroethane-d4 | 131        | 69-137        |
| Toluene-d8            | 108        | 77-124        |
| 4-Bromofluorobenzene  | 115        | 70-133        |

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**AIR TOXICS LTD.**

SAMPLE NAME : 11011 a&amp;b

ID#: 9910332-01A/B

Modified VOST 5041A GC/MS Full Scan

|              |         |                     |          |
|--------------|---------|---------------------|----------|
| File Name:   | h110312 | Date of Collection: | 10/22/99 |
| Dil. Factor: | 1.00    | Date of Analysis:   | 11/3/99  |

| Compound                         | Det. Limit<br>(nG) | Det. Limit<br>(uG/m3) | Amount<br>(nG) | Amount<br>(uG/m3) |
|----------------------------------|--------------------|-----------------------|----------------|-------------------|
| Chloromethane                    | 10                 | 21                    | Not Detected   | Not Detected      |
| Vinyl Chloride                   | 10                 | 26                    | Not Detected   | Not Detected      |
| Bromomethane                     | 10                 | 39                    | Not Detected   | Not Detected      |
| Chloroethane                     | 10                 | 27                    | Not Detected   | Not Detected      |
| Freon 11                         | 10                 | 57                    | Not Detected   | Not Detected      |
| 1,1-Dichloroethene               | 10                 | 40                    | Not Detected   | Not Detected      |
| Carbon Disulfide                 | 10                 | 32                    | Not Detected   | Not Detected      |
| Acetone                          | 50                 | 120                   | Not Detected   | Not Detected      |
| Methylene Chloride               | 10                 | 35                    | 34             | 120               |
| trans-1,2-Dichloroethene         | 10                 | 40                    | Not Detected   | Not Detected      |
| 1,1-Dichloroethane               | 10                 | 41                    | Not Detected   | Not Detected      |
| Vinyl Acetate                    | 50                 | 180                   | Not Detected   | Not Detected      |
| 2-Butanone (Methyl Ethyl Ketone) | 50                 | 150                   | Not Detected   | Not Detected      |
| Chloroform                       | 10                 | 50                    | Not Detected   | Not Detected      |
| 1,1,1-Trichloroethane            | 10                 | 55                    | Not Detected   | Not Detected      |
| Carbon Tetrachloride             | 10                 | 64                    | Not Detected   | Not Detected      |
| Benzene                          | 10                 | 32                    | Not Detected   | Not Detected      |
| 1,2-Dichloroethane               | 10                 | 41                    | Not Detected   | Not Detected      |
| Trichloroethene                  | 10                 | 55                    | Not Detected   | Not Detected      |
| 1,2-Dichloropropane              | 10                 | 47                    | Not Detected   | Not Detected      |
| Bromodichloromethane             | 10                 | 68                    | Not Detected   | Not Detected      |
| trans-1,3-Dichloropropene        | 10                 | 46                    | Not Detected   | Not Detected      |
| 4-Methyl-2-pentanone             | 50                 | 210                   | Not Detected   | Not Detected      |
| Toluene                          | 10                 | 38                    | Not Detected   | Not Detected      |
| cis-1,3-Dichloropropene          | 10                 | 46                    | Not Detected   | Not Detected      |
| 1,1,2-Trichloroethane            | 10                 | 55                    | Not Detected   | Not Detected      |
| Tetrachloroethene                | 10                 | 69                    | Not Detected   | Not Detected      |
| 2-Hexanone                       | 50                 | 210                   | Not Detected   | Not Detected      |
| Dibromochloromethane             | 10                 | 86                    | Not Detected   | Not Detected      |
| Chlorobenzene                    | 10                 | 47                    | Not Detected   | Not Detected      |
| Ethyl Benzene                    | 10                 | 44                    | Not Detected   | Not Detected      |
| m,p-Xylene                       | 10                 | 44                    | Not Detected   | Not Detected      |
| o-Xylene                         | 10                 | 44                    | Not Detected   | Not Detected      |
| Styrene                          | 10                 | 43                    | Not Detected   | Not Detected      |
| Bromoform                        | 10                 | 100                   | Not Detected   | Not Detected      |
| 1,1,2,2-Tetrachloroethane        | 10                 | 70                    | Not Detected   | Not Detected      |
| 1,3-Dichlorobenzene              | 10                 | 61                    | Not Detected   | Not Detected      |
| 1,4-Dichlorobenzene              | 10                 | 61                    | Not Detected   | Not Detected      |
| 1,2-Dichlorobenzene              | 10                 | 61                    | Not Detected   | Not Detected      |
| cis-1,2-Dichloroethene           | 10                 | 40                    | Not Detected   | Not Detected      |

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# AIR TOXICS LTD.

SAMPLE NAME : 11011 a&b

ID#: 9910332-01A/B

Modified VOST 5041A GC/MS Full Scan

|                     |         |                            |          |
|---------------------|---------|----------------------------|----------|
| <b>File Name:</b>   | h110312 | <b>Date of Collection:</b> | 10/22/99 |
| <b>Dil. Factor:</b> | 1.00    | <b>Date of Analysis:</b>   | 11/3/99  |

## TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported

| Compound        | CAS Number | Match Quality | Amount (nG) |
|-----------------|------------|---------------|-------------|
| None Identified |            |               |             |
| None Identified |            |               |             |

Container Type: VOST Tube

| Surrogates            | % Recovery | Method Limits |
|-----------------------|------------|---------------|
| Dibromofluoromethane  | 97         | 72-135        |
| 1,2-Dichloroethane-d4 | 88         | 69-137        |
| Toluene-d8            | 101        | 77-124        |
| 4-Bromofluorobenzene  | 105        | 70-133        |

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**AIR TOXICS LTD.**

SAMPLE NAME : 11012A

ID#: 9910301-01A

Modified VOST 5041A GC/MS Full Scan

|                     |         |                                     |
|---------------------|---------|-------------------------------------|
| <b>File Name:</b>   | h110209 | <b>Date of Collection:</b> 10/20/99 |
| <b>Dil. Factor:</b> | 1.00    | <b>Date of Analysis:</b> 11/2/99    |

| Compound                         | Det. Limit (nG) | Amount (nG)  |
|----------------------------------|-----------------|--------------|
| Chloromethane                    | 10              | 140          |
| Vinyl Chloride                   | 10              | Not Detected |
| Bromomethane                     | 10              | 13           |
| Chloroethane                     | 10              | Not Detected |
| Freon 11                         | 10              | Not Detected |
| 1,1-Dichloroethene               | 10              | Not Detected |
| Carbon Disulfide                 | 10              | Not Detected |
| Acetone                          | 50              | Not Detected |
| Methylene Chloride               | 10              | Not Detected |
| trans-1,2-Dichloroethene         | 10              | Not Detected |
| 1,1-Dichloroethane               | 10              | Not Detected |
| Vinyl Acetate                    | 50              | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 50              | Not Detected |
| Chloroform                       | 10              | Not Detected |
| 1,1,1-Trichloroethane            | 10              | Not Detected |
| Carbon Tetrachloride             | 10              | Not Detected |
| Benzene                          | 10              | Not Detected |
| 1,2-Dichloroethane               | 10              | Not Detected |
| Trichloroethene                  | 10              | Not Detected |
| 1,2-Dichloropropane              | 10              | Not Detected |
| Bromodichloromethane             | 10              | Not Detected |
| trans-1,3-Dichloropropene        | 10              | Not Detected |
| 4-Methyl-2-pentanone             | 50              | Not Detected |
| Toluene                          | 10              | Not Detected |
| cis-1,3-Dichloropropene          | 10              | Not Detected |
| 1,1,2-Trichloroethane            | 10              | Not Detected |
| Tetrachloroethene                | 10              | Not Detected |
| 2-Hexanone                       | 50              | Not Detected |
| Dibromochloromethane             | 10              | Not Detected |
| Chlorobenzene                    | 10              | Not Detected |
| Ethyl Benzene                    | 10              | Not Detected |
| m,p-Xylene                       | 10              | Not Detected |
| o-Xylene                         | 10              | Not Detected |
| Styrene                          | 10              | Not Detected |
| Bromoform                        | 10              | Not Detected |
| 1,1,2,2-Tetrachloroethane        | 10              | Not Detected |
| 1,3-Dichlorobenzene              | 10              | Not Detected |
| 1,4-Dichlorobenzene              | 10              | Not Detected |
| 1,2-Dichlorobenzene              | 10              | Not Detected |
| cis-1,2-Dichloroethene           | 10              | Not Detected |

**TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported**

| Compound        | CAS Number | Match Quality | Amount (nG) |
|-----------------|------------|---------------|-------------|
| None Identified |            |               |             |

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# AIR TOXICS LTD.

SAMPLE NAME : 11012A

ID#: 9910301-01A

Modified VOST 5041A GC/MS Full Scan

|                     |                |                                     |
|---------------------|----------------|-------------------------------------|
| <b>File Name:</b>   | <b>h110209</b> | <b>Date of Collection:</b> 10/20/99 |
| <b>Dil. Factor:</b> | <b>1.00</b>    | <b>Date of Analysis:</b> 11/2/99    |

## TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported

| Compound | CAS Number | Match Quality | Amount (ng) |
|----------|------------|---------------|-------------|
|----------|------------|---------------|-------------|

Container Type: VOST Tube

| Surrogates            | % Recovery | Method Limits |
|-----------------------|------------|---------------|
| Dibromofluoromethane  | 97         | 72-135        |
| 1,2-Dichloroethane-d4 | 86         | 69-137        |
| Toluene-d8            | 98         | 77-124        |
| 4-Bromofluorobenzene  | 103        | 70-133        |

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**AIR TOXICS LTD.**

SAMPLE NAME : 11012B

ID#: 9910301-01B

Modified VOST 5041A GC/MS Full Scan

|                     |                |                                     |
|---------------------|----------------|-------------------------------------|
| <b>File Name:</b>   | <b>h110210</b> | <b>Date of Collection:</b> 10/20/99 |
| <b>Dil. Factor:</b> | <b>1.00</b>    | <b>Date of Analysis:</b> 11/2/99    |

| Compound                         | Det. Limit (nG) | Amount (nG)  |
|----------------------------------|-----------------|--------------|
| Chloromethane                    | 10              | 20           |
| Vinyl Chloride                   | 10              | Not Detected |
| Bromomethane                     | 10              | Not Detected |
| Chloroethane                     | 10              | Not Detected |
| Freon 11                         | 10              | Not Detected |
| 1,1-Dichloroethene               | 10              | Not Detected |
| Carbon Disulfide                 | 10              | Not Detected |
| Acetone                          | 50              | Not Detected |
| Methylene Chloride               | 10              | Not Detected |
| trans-1,2-Dichloroethene         | 10              | Not Detected |
| 1,1-Dichloroethane               | 10              | Not Detected |
| Vinyl Acetate                    | 50              | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 50              | Not Detected |
| Chloroform                       | 10              | Not Detected |
| 1,1,1-Trichloroethane            | 10              | Not Detected |
| Carbon Tetrachloride             | 10              | Not Detected |
| Benzene                          | 10              | Not Detected |
| 1,2-Dichloroethane               | 10              | Not Detected |
| Trichloroethene                  | 10              | Not Detected |
| 1,2-Dichloropropane              | 10              | Not Detected |
| Bromodichloromethane             | 10              | Not Detected |
| trans-1,3-Dichloropropene        | 10              | Not Detected |
| 4-Methyl-2-pentanone             | 50              | Not Detected |
| Toluene                          | 10              | Not Detected |
| cis-1,3-Dichloropropene          | 10              | Not Detected |
| 1,1,2-Trichloroethane            | 10              | Not Detected |
| Tetrachloroethene                | 10              | Not Detected |
| 2-Hexanone                       | 50              | Not Detected |
| Dibromochloromethane             | 10              | Not Detected |
| Chlorobenzene                    | 10              | Not Detected |
| Ethyl Benzene                    | 10              | Not Detected |
| m,p-Xylene                       | 10              | Not Detected |
| o-Xylene                         | 10              | Not Detected |
| Styrene                          | 10              | Not Detected |
| Bromoform                        | 10              | Not Detected |
| 1,1,2,2-Tetrachloroethane        | 10              | Not Detected |
| 1,3-Dichlorobenzene              | 10              | Not Detected |
| 1,4-Dichlorobenzene              | 10              | Not Detected |
| 1,2-Dichlorobenzene              | 10              | Not Detected |
| cis-1,2-Dichloroethene           | 10              | Not Detected |

**TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported**

| Compound        | CAS Number | Match Quality | Amount (nG) |
|-----------------|------------|---------------|-------------|
| None Identified |            |               |             |

000017

# AIR TOXICS LTD.

SAMPLE NAME : 11012B

ID#: 9910301-01B

Modified VOST 5041A GC/MS Full Scan

|                     |                |                                     |
|---------------------|----------------|-------------------------------------|
| <b>File Name:</b>   | <b>h110210</b> | <b>Date of Collection:</b> 10/20/99 |
| <b>Dil. Factor:</b> | <b>1.00</b>    | <b>Date of Analysis:</b> 11/2/99    |

## TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported

| <u>Compound</u> | <u>CAS Number</u> | <u>Match Quality</u> | <u>Amount (nG)</u> |
|-----------------|-------------------|----------------------|--------------------|
|-----------------|-------------------|----------------------|--------------------|

Container Type: VOST Tube

| <u>Surrogates</u>     | <u>% Recovery</u> | <u>Method Limits</u> |
|-----------------------|-------------------|----------------------|
| Dibromofluoromethane  | 96                | 72-135               |
| 1,2-Dichloroethane-d4 | 87                | 69-137               |
| Toluene-d8            | 104               | 77-124               |
| 4-Bromofluorobenzene  | 116               | 70-133               |

000005

**AIR TOXICS LTD.**

SAMPLE NAME : 11025 a&amp;b

ID#: 9910316-01A/B

Modified VOST 5041A GC/MS Full Scan

|              |         |                     |          |
|--------------|---------|---------------------|----------|
| File Name:   | h110211 | Date of Collection: | 10/21/99 |
| Dil. Factor: | 1.00    | Date of Analysis:   | 11/2/99  |

| Compound                         | Det. Limit<br>(nG) | Det. Limit<br>(uG/m3) | Amount<br>(nG) | Amount<br>(uG/m3) |
|----------------------------------|--------------------|-----------------------|----------------|-------------------|
| Chloromethane                    | 10                 | 21                    | Not Detected   | Not Detected      |
| Vinyl Chloride                   | 10                 | 26                    | Not Detected   | Not Detected      |
| Bromomethane                     | 10                 | 39                    | Not Detected   | Not Detected      |
| Chloroethane                     | 10                 | 27                    | Not Detected   | Not Detected      |
| Freon 11                         | 10                 | 57                    | Not Detected   | Not Detected      |
| 1,1-Dichloroethene               | 10                 | 40                    | Not Detected   | Not Detected      |
| Carbon Disulfide                 | 10                 | 32                    | Not Detected   | Not Detected      |
| Acetone                          | 50                 | 120                   | Not Detected   | Not Detected      |
| Methylene Chloride               | 10                 | 35                    | Not Detected   | Not Detected      |
| trans-1,2-Dichloroethene         | 10                 | 40                    | Not Detected   | Not Detected      |
| 1,1-Dichloroethane               | 10                 | 41                    | Not Detected   | Not Detected      |
| Vinyl Acetate                    | 50                 | 180                   | Not Detected   | Not Detected      |
| 2-Butanone (Methyl Ethyl Ketone) | 50                 | 150                   | Not Detected   | Not Detected      |
| Chloroform                       | 10                 | 50                    | Not Detected   | Not Detected      |
| 1,1,1-Trichloroethane            | 10                 | 55                    | Not Detected   | Not Detected      |
| Carbon Tetrachloride             | 10                 | 64                    | Not Detected   | Not Detected      |
| Benzene                          | 10                 | 32                    | Not Detected   | Not Detected      |
| 1,2-Dichloroethane               | 10                 | 41                    | Not Detected   | Not Detected      |
| Trichloroethene                  | 10                 | 55                    | Not Detected   | Not Detected      |
| 1,2-Dichloropropane              | 10                 | 47                    | Not Detected   | Not Detected      |
| Bromodichloromethane             | 10                 | 68                    | Not Detected   | Not Detected      |
| trans-1,3-Dichloropropene        | 10                 | 46                    | Not Detected   | Not Detected      |
| 4-Methyl-2-pentanone             | 50                 | 210                   | Not Detected   | Not Detected      |
| Toluene                          | 10                 | 38                    | Not Detected   | Not Detected      |
| cis-1,3-Dichloropropene          | 10                 | 46                    | Not Detected   | Not Detected      |
| 1,1,2-Trichloroethane            | 10                 | 55                    | Not Detected   | Not Detected      |
| Tetrachloroethene                | 10                 | 69                    | Not Detected   | Not Detected      |
| 2-Hexanone                       | 50                 | 210                   | Not Detected   | Not Detected      |
| Dibromochloromethane             | 10                 | 86                    | Not Detected   | Not Detected      |
| Chlorobenzene                    | 10                 | 47                    | Not Detected   | Not Detected      |
| Ethyl Benzene                    | 10                 | 44                    | Not Detected   | Not Detected      |
| m,p-Xylene                       | 10                 | 44                    | Not Detected   | Not Detected      |
| o-Xylene                         | 10                 | 44                    | Not Detected   | Not Detected      |
| Styrene                          | 10                 | 43                    | Not Detected   | Not Detected      |
| Bromoform                        | 10                 | 100                   | Not Detected   | Not Detected      |
| 1,1,2,2-Tetrachloroethane        | 10                 | 70                    | Not Detected   | Not Detected      |
| 1,3-Dichlorobenzene              | 10                 | 61                    | Not Detected   | Not Detected      |
| 1,4-Dichlorobenzene              | 10                 | 61                    | Not Detected   | Not Detected      |
| 1,2-Dichlorobenzene              | 10                 | 61                    | Not Detected   | Not Detected      |
| cis-1,2-Dichloroethene           | 10                 | 40                    | Not Detected   | Not Detected      |

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# AIR TOXICS LTD.

SAMPLE NAME : 11025 a&b

ID#: 9910316-01A/B

Modified VOST 5041A GC/MS Full Scan

|              |         |                     |          |
|--------------|---------|---------------------|----------|
| File Name:   | h110211 | Date of Collection: | 10/21/99 |
| Dil. Factor: | 1.00    | Date of Analysis:   | 11/2/99  |

## TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported

| Compound        | CAS Number | Match Quality | Amount (nG) |
|-----------------|------------|---------------|-------------|
| None Identified |            |               |             |
| None Identified |            |               |             |

Container Type: VOST Tube

| Surrogates            | % Recovery | Method Limits |
|-----------------------|------------|---------------|
| Dibromofluoromethane  | 92         | 72-135        |
| 1,2-Dichloroethane-d4 | 84         | 69-137        |
| Toluene-d8            | 107        | 77-124        |
| 4-Bromofluorobenzene  | 121        | 70-133        |

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**AIR TOXICS LTD.**

SAMPLE NAME : 11101 a&amp;b

ID#: 9910376-01A/B

Modified VOST 5041A GC/MS Full Scan

|              |         |                     |          |
|--------------|---------|---------------------|----------|
| File Name:   | h110405 | Date of Collection: | 10/25/99 |
| Dil. Factor: | 1.00    | Date of Analysis:   | 11/4/99  |

| Compound                         | Det. Limit (nG) | Amount (nG)  |
|----------------------------------|-----------------|--------------|
| Chloromethane                    | 10              | Not Detected |
| Vinyl Chloride                   | 10              | Not Detected |
| Bromomethane                     | 10              | Not Detected |
| Chloroethane                     | 10              | Not Detected |
| Freon 11                         | 10              | Not Detected |
| 1,1-Dichloroethene               | 10              | Not Detected |
| Carbon Disulfide                 | 10              | Not Detected |
| Acetone                          | 50              | Not Detected |
| Methylene Chloride               | 10              | Not Detected |
| trans-1,2-Dichloroethene         | 10              | Not Detected |
| 1,1-Dichloroethane               | 10              | Not Detected |
| Vinyl Acetate                    | 50              | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 50              | Not Detected |
| Chloroform                       | 10              | Not Detected |
| 1,1,1-Trichloroethane            | 10              | Not Detected |
| Carbon Tetrachloride             | 10              | Not Detected |
| Benzene                          | 10              | Not Detected |
| 1,2-Dichloroethane               | 10              | Not Detected |
| Trichloroethene                  | 10              | Not Detected |
| 1,2-Dichloropropane              | 10              | Not Detected |
| Bromodichloromethane             | 10              | Not Detected |
| trans-1,3-Dichloropropene        | 10              | Not Detected |
| 4-Methyl-2-pentanone             | 50              | Not Detected |
| Toluene                          | 10              | Not Detected |
| cis-1,3-Dichloropropene          | 10              | Not Detected |
| 1,1,2-Trichloroethane            | 10              | Not Detected |
| Tetrachloroethene                | 10              | Not Detected |
| 2-Hexanone                       | 50              | Not Detected |
| Dibromochloromethane             | 10              | Not Detected |
| Chlorobenzene                    | 10              | Not Detected |
| Ethyl Benzene                    | 10              | Not Detected |
| m,p-Xylene                       | 10              | Not Detected |
| o-Xylene                         | 10              | Not Detected |
| Styrene                          | 10              | Not Detected |
| Bromoform                        | 10              | Not Detected |
| 1,1,2,2-Tetrachloroethane        | 10              | Not Detected |
| 1,3-Dichlorobenzene              | 10              | Not Detected |
| 1,4-Dichlorobenzene              | 10              | Not Detected |
| 1,2-Dichlorobenzene              | 10              | Not Detected |
| cis-1,2-Dichloroethene           | 10              | Not Detected |

**TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported**

| Compound        | CAS Number | Match Quality | Amount (nG) |
|-----------------|------------|---------------|-------------|
| None Identified |            |               |             |

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**AIR TOXICS LTD.**

SAMPLE NAME : 11101 a&amp;b

ID#: 9910376-01A/B

Modified VOST 5041A GC/MS Full Scan

|              |         |                     |          |
|--------------|---------|---------------------|----------|
| File Name:   | h110405 | Date of Collection: | 10/25/99 |
| Dil. Factor: | 1.00    | Date of Analysis:   | 11/4/99  |

## TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported

| Compound | CAS Number | Match Quality | Amount (nG) |
|----------|------------|---------------|-------------|
|----------|------------|---------------|-------------|

Container Type: VOST Tube

| Surrogates            | % Recovery | Method Limits |
|-----------------------|------------|---------------|
| Dibromofluoromethane  | 90         | 72-135        |
| 1,2-Dichloroethane-d4 | 74         | 69-137        |
| Toluene-d8            | 111        | 77-124        |
| 4-Bromofluorobenzene  | 113        | 70-133        |

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**AIR TOXICS LTD.**

SAMPLE NAME : 11204 a&amp;b

ID#: 9910396-01A/B

Modified VOST 5041A GC/MS Full Scan

|              |         |                     |          |
|--------------|---------|---------------------|----------|
| File Name:   | n110509 | Date of Collection: | 10/25/99 |
| Dil. Factor: | 1.00    | Date of Analysis:   | 11/5/99  |

| Compound                         | Det. Limit (nG) | Amount (nG)  |
|----------------------------------|-----------------|--------------|
| Chloromethane                    | 10              | Not Detected |
| Vinyl Chloride                   | 10              | Not Detected |
| Bromomethane                     | 10              | Not Detected |
| Chloroethane                     | 10              | Not Detected |
| Freon 11                         | 10              | Not Detected |
| 1,1-Dichloroethene               | 10              | Not Detected |
| Carbon Disulfide                 | 10              | Not Detected |
| Acetone                          | 50              | Not Detected |
| Methylene Chloride               | 10              | 11           |
| trans-1,2-Dichloroethene         | 10              | Not Detected |
| 1,1-Dichloroethane               | 10              | Not Detected |
| Vinyl Acetate                    | 50              | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 50              | Not Detected |
| Chloroform                       | 10              | Not Detected |
| 1,1,1-Trichloroethane            | 10              | Not Detected |
| Carbon Tetrachloride             | 10              | Not Detected |
| Benzene                          | 10              | Not Detected |
| 1,2-Dichloroethane               | 10              | Not Detected |
| Trichloroethene                  | 10              | Not Detected |
| 1,2-Dichloropropane              | 10              | Not Detected |
| Bromodichloromethane             | 10              | Not Detected |
| trans-1,3-Dichloropropene        | 10              | Not Detected |
| 4-Methyl-2-pentanone             | 50              | Not Detected |
| Toluene                          | 10              | Not Detected |
| cis-1,3-Dichloropropene          | 10              | Not Detected |
| 1,1,2-Trichloroethane            | 10              | Not Detected |
| Tetrachloroethene                | 10              | Not Detected |
| 2-Hexanone                       | 50              | Not Detected |
| Dibromochloromethane             | 10              | Not Detected |
| Chlorobenzene                    | 10              | Not Detected |
| Ethyl Benzene                    | 10              | Not Detected |
| m,p-Xylene                       | 10              | Not Detected |
| o-Xylene                         | 10              | Not Detected |
| Styrene                          | 10              | Not Detected |
| Bromoform                        | 10              | Not Detected |
| 1,1,2,2-Tetrachloroethane        | 10              | Not Detected |
| 1,3-Dichlorobenzene              | 10              | Not Detected |
| 1,4-Dichlorobenzene              | 10              | Not Detected |
| 1,2-Dichlorobenzene              | 10              | Not Detected |
| cis-1,2-Dichloroethene           | 10              | Not Detected |

**TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported**

| Compound        | CAS Number | Match Quality | Amount (nG) |
|-----------------|------------|---------------|-------------|
| None Identified |            |               |             |

# AIR TOXICS LTD.

000006

SAMPLE NAME : 11204 a&b

ID#: 9910396-01A/B

Modified VOST 5041A GC/MS Full Scan

|              |         |                     |          |
|--------------|---------|---------------------|----------|
| File Name:   | n110509 | Date of Collection: | 10/25/99 |
| Dil. Factor: | 1.00    | Date of Analysis:   | 11/5/99  |

| TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported |            |               |             |
|--|------------|---------------|-------------|
| Compound   | CAS Number | Match Quality | Amount (nG) |

Container Type: VOST Tube

| Surrogates            | % Recovery | Method Limits |
|-----------------------|------------|---------------|
| Dibromofluoromethane  | 101        | 72-135        |
| 1,2-Dichloroethane-d4 | 102        | 69-137        |
| Toluene-d8            | 102        | 77-124        |
| 4-Bromofluorobenzene  | 99         | 70-133        |

# AIR TOXICS LTD.

000005

SAMPLE NAME : 11208 a&b

ID#: 9910444-01A/B

Modified VOST 5041A GC/MS Full Scan

|              |         |                     |          |
|--------------|---------|---------------------|----------|
| File Name:   | h110905 | Date of Collection: | 10/28/99 |
| Dil. Factor: | 1.00    | Date of Analysis:   | 11/9/99  |

| Compound                         | Det. Limit (nG) | Amount (nG)  |
|----------------------------------|-----------------|--------------|
| Chloromethane                    | 10              | Not Detected |
| Vinyl Chloride                   | 10              | Not Detected |
| Bromomethane                     | 10              | Not Detected |
| Chloroethane                     | 10              | Not Detected |
| Freon 11                         | 10              | Not Detected |
| 1,1-Dichloroethene               | 10              | Not Detected |
| Carbon Disulfide                 | 10              | Not Detected |
| Acetone                          | 50              | Not Detected |
| Methylene Chloride               | 10              | Not Detected |
| trans-1,2-Dichloroethene         | 10              | Not Detected |
| 1,1-Dichloroethane               | 10              | Not Detected |
| Vinyl Acetate                    | 50              | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 50              | Not Detected |
| Chloroform                       | 10              | Not Detected |
| 1,1,1-Trichloroethane            | 10              | Not Detected |
| Carbon Tetrachloride             | 10              | Not Detected |
| Benzene                          | 10              | Not Detected |
| 1,2-Dichloroethane               | 10              | Not Detected |
| Trichloroethene                  | 10              | Not Detected |
| 1,2-Dichloropropane              | 10              | Not Detected |
| Bromodichloromethane             | 10              | Not Detected |
| trans-1,3-Dichloropropene        | 10              | Not Detected |
| 4-Methyl-2-pentanone             | 50              | Not Detected |
| Toluene                          | 10              | Not Detected |
| cis-1,3-Dichloropropene          | 10              | Not Detected |
| 1,1,2-Trichloroethane            | 10              | Not Detected |
| Tetrachloroethene                | 10              | Not Detected |
| 2-Hexanone                       | 50              | Not Detected |
| Dibromochloromethane             | 10              | Not Detected |
| Chlorobenzene                    | 10              | Not Detected |
| Ethyl Benzene                    | 10              | Not Detected |
| m,p-Xylene                       | 10              | Not Detected |
| o-Xylene                         | 10              | Not Detected |
| Styrene                          | 10              | Not Detected |
| Bromoform                        | 10              | Not Detected |
| 1,1,2,2-Tetrachloroethane        | 10              | Not Detected |
| 1,3-Dichlorobenzene              | 10              | Not Detected |
| 1,4-Dichlorobenzene              | 10              | Not Detected |
| 1,2-Dichlorobenzene              | 10              | Not Detected |
| cis-1,2-Dichloroethene           | 10              | Not Detected |

### TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported

| Compound        | CAS Number | Match Quality | Amount (nG) |
|-----------------|------------|---------------|-------------|
| None Identified |            |               |             |

# AIR TOXICS LTD.

000006

SAMPLE NAME : 11208 a&b

ID#: 9910444-01A/B

Modified VOST 5041A GC/MS Full Scan

|              |         |                     |          |
|--------------|---------|---------------------|----------|
| File Name:   | h110905 | Date of Collection: | 10/28/99 |
| Dil. Factor: | 1.00    | Date of Analysis:   | 11/9/99  |

## TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported

| Compound | CAS Number | Match Quality | Amount (nG) |
|----------|------------|---------------|-------------|
|----------|------------|---------------|-------------|

Container Type: VOST Tube

| Surrogates            | % Recovery | Method Limits |
|-----------------------|------------|---------------|
| Dibromofluoromethane  | 113        | 72-135        |
| 1,2-Dichloroethane-d4 | 128        | 69-137        |
| Toluene-d8            | 105        | 77-124        |
| 4-Bromofluorobenzene  | 126        | 70-133        |

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**AIR TOXICS LTD.**

SAMPLE NAME : 11221 a&amp;b

ID#: 9910432-01A/B

Modified VOST 5041A GC/MS Full Scan

|                     |                |                                     |
|---------------------|----------------|-------------------------------------|
| <b>File Name:</b>   | <b>h110605</b> | <b>Date of Collection:</b> 10/27/99 |
| <b>Dil. Factor:</b> | <b>1.00</b>    | <b>Date of Analysis:</b> 11/6/99    |

| Compound                         | Det. Limit (nG) | Amount (nG)  |
|----------------------------------|-----------------|--------------|
| Chloromethane                    | 10              | Not Detected |
| Vinyl Chloride                   | 10              | Not Detected |
| Bromomethane                     | 10              | Not Detected |
| Chloroethane                     | 10              | Not Detected |
| Freon 11                         | 10              | Not Detected |
| 1,1-Dichloroethene               | 10              | Not Detected |
| Carbon Disulfide                 | 10              | Not Detected |
| Acetone                          | 50              | Not Detected |
| Methylene Chloride               | 10              | Not Detected |
| trans-1,2-Dichloroethene         | 10              | Not Detected |
| 1,1-Dichloroethane               | 10              | Not Detected |
| Vinyl Acetate                    | 50              | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 50              | Not Detected |
| Chloroform                       | 10              | Not Detected |
| 1,1,1-Trichloroethane            | 10              | Not Detected |
| Carbon Tetrachloride             | 10              | Not Detected |
| Benzene                          | 10              | Not Detected |
| 1,2-Dichloroethane               | 10              | Not Detected |
| Trichloroethene                  | 10              | Not Detected |
| 1,2-Dichloropropane              | 10              | Not Detected |
| Bromodichloromethane             | 10              | Not Detected |
| trans-1,3-Dichloropropene        | 10              | Not Detected |
| 4-Methyl-2-pentanone             | 50              | Not Detected |
| Toluene                          | 10              | Not Detected |
| cis-1,3-Dichloropropene          | 10              | Not Detected |
| 1,1,2-Trichloroethane            | 10              | Not Detected |
| Tetrachloroethene                | 10              | Not Detected |
| 2-Hexanone                       | 50              | Not Detected |
| Dibromochloromethane             | 10              | Not Detected |
| Chlorobenzene                    | 10              | Not Detected |
| Ethyl Benzene                    | 10              | Not Detected |
| m,p-Xylene                       | 10              | Not Detected |
| o-Xylene                         | 10              | Not Detected |
| Styrene                          | 10              | Not Detected |
| Bromoform                        | 10              | Not Detected |
| 1,1,2,2-Tetrachloroethane        | 10              | Not Detected |
| 1,3-Dichlorobenzene              | 10              | Not Detected |
| 1,4-Dichlorobenzene              | 10              | Not Detected |
| 1,2-Dichlorobenzene              | 10              | Not Detected |
| cis-1,2-Dichloroethene           | 10              | Not Detected |

**TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported**

| Compound        | CAS Number | Match Quality | Amount (nG) |
|-----------------|------------|---------------|-------------|
| None Identified |            |               |             |

000006

**AIR TOXICS LTD.**

SAMPLE NAME : 11221 a&amp;b

ID#: 9910432-01A/B

Modified VOST 5041A GC/MS Full Scan

|                     |                |                                     |
|---------------------|----------------|-------------------------------------|
| <b>File Name:</b>   | <b>h110605</b> | <b>Date of Collection:</b> 10/27/99 |
| <b>Dil. Factor:</b> | <b>1.00</b>    | <b>Date of Analysis:</b> 11/6/99    |

**TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported**

| <b>Compound</b> | <b>CAS Number</b> | <b>Match Quality</b> | <b>Amount (nG)</b> |
|-----------------|-------------------|----------------------|--------------------|
|-----------------|-------------------|----------------------|--------------------|

Container Type: VOST Tube

| <b>Surrogates</b>     | <b>% Recovery</b> | <b>Method Limits</b> |
|-----------------------|-------------------|----------------------|
| Dibromofluoromethane  | 107               | 72-135               |
| 1,2-Dichloroethane-d4 | 124               | 69-137               |
| Toluene-d8            | 107               | 77-124               |
| 4-Bromofluorobenzene  | 119               | 70-133               |

# AIR TOXICS LTD.

SAMPLE NAME : 11316 a&b

ID#: 9910471-01A/B

Modified VOST 5041A GC/MS Full Scan

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|              |         |                              |
|--------------|---------|------------------------------|
| File Name:   | h110908 | Date of Collection: 10/29/99 |
| Dil. Factor: | 1.00    | Date of Analysis: 11/9/99    |

| Compound                         | Det. Limit (nG) | Amount (nG)  |
|----------------------------------|-----------------|--------------|
| Chloromethane                    | 10              | Not Detected |
| Vinyl Chloride                   | 10              | Not Detected |
| Bromomethane                     | 10              | Not Detected |
| Chloroethane                     | 10              | Not Detected |
| Freon 11                         | 10              | Not Detected |
| 1,1-Dichloroethene               | 10              | Not Detected |
| Carbon Disulfide                 | 10              | Not Detected |
| Acetone                          | 50              | Not Detected |
| Methylene Chloride               | 10              | Not Detected |
| trans-1,2-Dichloroethene         | 10              | Not Detected |
| 1,1-Dichloroethane               | 10              | Not Detected |
| Vinyl Acetate                    | 50              | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 50              | Not Detected |
| Chloroform                       | 10              | Not Detected |
| 1,1,1-Trichloroethane            | 10              | Not Detected |
| Carbon Tetrachloride             | 10              | Not Detected |
| Benzene                          | 10              | Not Detected |
| 1,2-Dichloroethane               | 10              | Not Detected |
| Trichloroethene                  | 10              | Not Detected |
| 1,2-Dichloropropane              | 10              | Not Detected |
| Bromodichloromethane             | 10              | Not Detected |
| trans-1,3-Dichloropropene        | 10              | Not Detected |
| 4-Methyl-2-pentanone             | 50              | Not Detected |
| Toluene                          | 10              | Not Detected |
| cis-1,3-Dichloropropene          | 10              | Not Detected |
| 1,1,2-Trichloroethane            | 10              | Not Detected |
| Tetrachloroethene                | 10              | Not Detected |
| 2-Hexanone                       | 50              | Not Detected |
| Dibromochloromethane             | 10              | Not Detected |
| Chlorobenzene                    | 10              | Not Detected |
| Ethyl Benzene                    | 10              | Not Detected |
| m,p-Xylene                       | 10              | Not Detected |
| o-Xylene                         | 10              | Not Detected |
| Styrene                          | 10              | Not Detected |
| Bromoform                        | 10              | Not Detected |
| 1,1,2,2-Tetrachloroethane        | 10              | Not Detected |
| 1,3-Dichlorobenzene              | 10              | Not Detected |
| 1,4-Dichlorobenzene              | 10              | Not Detected |
| 1,2-Dichlorobenzene              | 10              | Not Detected |
| cis-1,2-Dichloroethene           | 10              | Not Detected |

**TENTATIVELY IDENTIFIED COMPOUNDS - Top 10 Reported**

| Compound        | CAS Number | Match Quality | Amount (nG) |
|-----------------|------------|---------------|-------------|
| None Identified |            |               |             |



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

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December 1, 2000

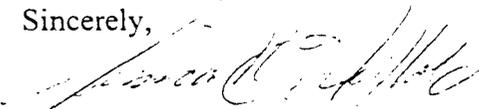
Janie Carrig  
USACE Omaha District  
CENQO-ED-GC  
215 N. 17<sup>th</sup> St.  
Omaha, NE 68106

Dear Ms. Carrig:

Re: Validated Data for Himco Dump  
Superfund Site, Elkhart, IN

Enclosed please find the validated results for the Himco dump inorganic data set per your request. If you have any questions regarding the data or the validation, please feel free to call me at (317) 233-2823.

Sincerely,



Jessica R. Huxhold, Project Manager  
Federal Programs Section  
Office of Land Quality

JRH:jrh  
Enclosures  
cc: Rex Osborn, IDEM (w/o enclosures)

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

INDIANAPOLIS

OFFICE MEMORANDUM

Date: November 17, 2000

To: Jessica Huxhold  
Federal Programs Section

Thru: Fran Metcalfe  
Steve Buckel

*JH 11/17/2000*  
*FR for SB 11/17/00*

From: Sandra Roberts  
OLQ Chemistry Section

Subject: Analytical Results for Himco Dump  
Elkhart County, Elkhart, Indiana  
Site # 7500044

Sampled: March 15 and 16, 2000, April 17, 18, 19, 25, 26, 27, and 28, 2000  
and May 1, 2, and 3, 2000

Tested by Region 5 Central Regional Laboratories in Chicago, Illinois

The analytical data and results from "Data Submittal for the March/April 2000 Groundwater Sampling Event for Himco Dump have been validated according to the quality criteria contained in Test Methods for Evaluated Solid Waste, Physical/Chemical Methods, SW-846, Third Edition, Final Updates 1, 2, 2a, and 3, and EPA Drinking Water Standards, 1996. Based on the evaluation, it has been determined that the results are acceptable for use. Reasons that data are qualified as estimated or unusable are explained below. This memorandum should remain attached to the original laboratory reports for reference.

General Comments:

The purpose of this event was to sample in the groundwater at the Himco Dump. The collected samples were analyzed for total metals, and the general chemistry parameters, sulfate and bromide. Sample set 2000SY03S01 thru S11 was tested for general chemistry parameters only. Sample set 2000SY01S01 thru S14 was tested for total metals only. Samples set 2000SY04S14 thru S39, 2000SY04S40 thru S58, and 2000SY04S01 thru S13 were tested for total metals and general chemistry parameters.

Sampling Quality Assurance/Quality Control:

Field documentation included only the chain-of-custody with the field locations in terms of monitoring well identifications and residential water well addresses. Therefore, no site

interpretation or evaluation can be made.

Field duplicate samples are used to establish the representativeness of field sampling (i.e., the homogeneity and sample variability). For sample set 20000SY04S14 thru S39, no interpretation could be made since no field information was provided with the data. For sample set 20000SY01S01 thru S14, the groundwater duplicate sample results are considered in good agreement. In sample set 20000SY04S40 thru S58, the groundwater results for barium, calcium, iron, magnesium, manganese, potassium, sodium, and sulfate are considered estimated due to poor agreement in sample duplicate results of WT116A and WT114A. For sample set 2000SY04S01 thru S13, the groundwater duplicate sample results for potassium and zinc in groundwater are considered estimated due to poor agreement. No field duplicate samples were collected for the 2000SY03S01 through S11 sample set for bromide and sulfate of the 3/15/00 and 3/16/00 sampling events and therefore, the results are considered estimated. Since the samples were not tested for total suspended solids, no interpretation can be made regarding possible contributions to the poor duplication in the above water samples. Also, no field sampling information further complicates the interpretation process.

Field blanks (trip and/or equipment) are used to identify sample contamination resulting from sampling equipment, sample containers, chemical preservatives, and the handling and transportation of samples. No trip blanks are required since no volatile organic constituents were on the parameter list. No equipment blank results were reported. Note that the Himco Supplemental Ground Water Investigation Field Sampling Plan (FSP) indicates that quality control samples will include an equipment blank and the equipment blank will be collected after the last monitoring well has been sampled. If nondedicated equipment that is listed in the Himco FSP was used to collect the samples, the results will possibly reflect cross-contamination and biased high results.

#### Laboratory Quality Assurance/Quality Control:

The laboratory performed all quality assurance/quality control (QA/QC) measures necessary to validate the analytical results for this sampling event. According to the Himco Supplemental Ground Water Investigation Field Sampling Plan/Quality Assurance Project Plan, the SW-846 methods were referenced for sample analysis. Based on the SW-846 quality assurance/control criteria, the data is considered acceptable for use.

Based on the validation of the analytical results, the following specific comments and/or qualifications made regarding the data:

#### **Metals Analysis**

Groundwater samples were tested for metals by EPA Methods 200.7, and 245.2, and GFAA (Graphite Furnace Atomic Absorption) Method. The following inadequacies/irregularities were found for all the metals testing by ICP. The possible matrix effects could not be determined, since the laboratory intermingled SW-846 and Contract Laboratory Program (CLP) methods by performing lab duplicate samples instead of testing matrix spike duplicate sample data. Also, initial calibration verification and continuing calibration verification were labeled audit check

results. Note that whenever audit samples were outside of the CLP criteria of 90-110% recovery for the metals, first sample run result by the SW-846 method was reported.

The mercury results for 2000SY04S40 through S58 are considered estimated since the holding time of 28 days was exceeded.

The chromium and zinc results for 2000SY04S40 through S58 are considered estimated and biased slightly high due to continuing calibration verification (CCV) recovery of 110.64% for chromium and CCV recoveries of 113.22% and 111.19% for zinc.

The selenium results for 2000SY04S54 are considered estimated and biased slightly high due to CCV recovery of 112%.

The mercury results for 2000SY04S01 through S13 are considered estimated and biased slightly high due to high matrix spike (MS) recovery of 127.2% and high laboratory control sample (LCS) result of 124.3%.

The cobalt results for 2000SY04S01 through S13 are considered estimated and biased slightly high due to initial calibration verification (ICV) recovery of 110.99% and continuing calibration verification (CCV) recovery of 110.52%.

The iron results for 2000SY04S01 through S13 are considered estimated and biased slightly high due to CCV recovery of 110.94%.

The sodium results for 2000SY04S01 through S13 are considered estimated and biased low due to low matrix spike (MS) recovery of 60.77%.

The calcium results for 2000SY01S01 through S14 and 2000SY01R12 are considered estimated and biased high due to contamination in the preparation blank at 158 ppb.

The chromium and cobalt results for 2000SY01S01 through S14 and 2000SY01R12 are considered estimated and biased high due to high CCV recoveries of 112.35%, 112.96%, and 112.96% chromium and CCV recovery of 115.4% for cobalt.

The chromium and cobalt results for 2000SY04S31 through S39 are considered estimated and slightly biased high due to CCV recovery of 112.63% for chromium and CCV recovery of 110.74% for cobalt.

The iron results for 2000SY04S14 through S39 are considered estimated due to contamination in the preparation blank of 42.2 ppb, which is approaching the reporting limit of 46.5 ppb.

The magnesium results for 2000SY04S31 through S39 are considered estimated and biased high due to CCV recovery of 111.44%.

The nickel results for 2000SY04S14 through S39 are considered estimated and slightly biased high due to ICV recovery of 111.68% and CCV recoveries of 111.15%, 110.76%, and 114.01%.

### **General Chemistry**

Groundwater samples were tested for sulfate and bromide by EPA Method 300.0. The possible matrix effects could not be determined, since the laboratory intermingled SW-846 and CLP methods by testing duplicate samples instead of testing matrix spike duplicate sample data.

The sulfate results for 2000SY03S01 through S11 are considered estimated due to low level contamination in the initial calibration blank samples of 3.67 ppm and 3.51 ppm.

The sulfate results for 2000SY04S14 through S39 are considered estimated and biased low due to low laboratory fortified blank recovery of 66.5%.

The sulfate results for 2000SY04S44, S0000SY04S49, and S0000SY04S58 are considered estimated due to low calibration coefficient of 0.992.

### Results:

Multiple samples showed exceedences for Drinking Water Standard Secondary Maximum Contaminant Levels (SMCLs), Maximum Contaminant Levels (MCLs) and action levels.

The background well is WT102A and upgradient well is WT112A. Both wells showed SMCL exceedences in manganese. The background well also showed SMCL exceedence in sulfate. See attached charts for results and other SMCL exceedences. The total chromium concentration exceeded the MCL of 100 ppb with GPE-2 at 154 ppb, GP114-3 at 173 ppb, and GP16-2 at 124 ppb. The total arsenic concentration exceeded the MCL of 50 ppb with GP16-2 at 74 ppb. The total lead concentration exceeded the MCL of GPE-2 at 27 ppb, GP114-3 at 35 ppb, GP16-2 at 47, 15 ppb with GPE-1 at 15 ppb, and GP101-1 at 27 ppb.

All charts list the data in terms of reporting limits, instead of method detection limits that a few of the laboratory reports indicated. Plume delineation could not be determined since twenty additional wells and twelve residential sampling locations/descriptions were included in the data package than are shown in the field sampling plan and maps.

Note that sample set 2000SY04S01 thru S13 round was duplicated in sample set 2000SY01S01 thru S14. The reasons for this duplication is unknown.

### Conclusion

For overall project goal, the data are acceptable for use. Quarterly sampling and any ongoing

remediation should continue to document the MCL, SMCL, and action levels exceedences. Also, field sheets and a revised sampling location map should be submitted with future results and the SW-846 methods and criteria listed in the Himco Supplemental Ground Water Investigation Field Sampling Plan/Quality Assurance Project Plan should be followed in the future.

Attachments

## General Chemical Analysis

**Site Name:** Himco Dump  
**Site Number:** 7500044  
**Location:** Elkhart County, Elkhart, Indiana  
**Date Sampled:** 3/15/00 and 3/16/00  
**Date Reported:** 4/19/00  
**Lab:** Region 5 Central Regional Laboratories

Water

UNITS: mg/L

| Sample #    | Type/ID#        | Sulfate    | Bromide |
|-------------|-----------------|------------|---------|
| Lab         |                 |            |         |
|             | Reporting Limit | 0.75       | 0.5     |
|             | Action Level >  | 250 (SMCL) | N/A     |
| 2000SY03S01 | 27919/EDCK4     | 132        |         |
| 2000SY03S02 | 27948/EDCK2     | 146        |         |
| 2000SY03S03 | B-3             | 126        |         |
| 2000SY03S04 | 54271/EDCK0     | 138        |         |
| 2000SY03S05 | J-1             | 114        |         |
| 2000SY03S06 | E-3             | 126        |         |
| 2000SY03S07 | B-1             |            |         |
| 2000SY03S08 | B-4             | 46.1       |         |
| 2000SY03S09 | EDCK1/54253     | 154        |         |
| 2000SY03S10 | 54280/EDCK3     | 133        |         |
| 2000SY03S11 | 54305/EDCJ7     | 171        |         |
|             |                 |            |         |
|             |                 |            |         |

\* BLANK (Type indicated)

Empty Box indicates NON-DETECTABLE

**Estimated**

\*\* FIELD DUPLICATE

NR = NOT RUN

NA=NOT AVAILABLE

**Bold = above action level**

SMCL = Secondary Maximum Contamination Limit

### Total Metals

pg 1  
Water

Site Name: Himco Dump  
 Site Number: 7500044  
 Location: Elkhart County, Elkhart, Indiana  
 Date Sampled: 3/15/00 and 3/16/00  
 Date Reported: 4/19/00  
 Lab: Region 5 Central Regional Laboratories

UNITS: ug/L

| Sample #                 | Type/ID#         | Al           | Ba   | Be | Ca      | Cr  | Co  | Cu   | Fe        | Mg     | Mn       | Ni  | K     | Ag        |
|--------------------------|------------------|--------------|------|----|---------|-----|-----|------|-----------|--------|----------|-----|-------|-----------|
| Lab                      | Reporting Limit  | 100          | 5    | 5  | 100     | 30  | 30  | 30   | 100       | 100    | 15       | 50  | 300   | 30        |
| MCLs and Action Levels > |                  | 50-200(SMCL) | 2000 | 4  | N/A     | 100 | N/A | 1300 | 300(SMCL) | N/A    | 50(SMCL) | N/A | N/A   | 100(SMCL) |
| 2000SY01S01              | B-1              |              | 118  |    | 57,200  |     |     |      | 509       | 22,000 | 40.4     |     | 2,080 |           |
| 2000SY01S02              | B-3              |              | 61.8 |    | 87,600  |     |     |      | 418       | 27,200 | 299      |     | 1,240 |           |
| 2000SY01S03              | 54253 Westwood   |              | 128  |    | 91,500  |     |     |      | 1,670     | 26,500 | 213      |     | 1,330 |           |
| 2000SY01S04              | 54271 Westwood   |              | 50.4 |    | 101,000 |     |     |      | 104       | 21,700 | 359      |     | 1,790 |           |
| 2000SY01S05              | 54215 Westwood   |              | 32.8 |    | 91,800  |     |     |      |           | 19,800 |          |     | 4,650 |           |
| 2000SY01S06              | 27964 Westwood   |              | 113  |    | 113,000 |     |     |      | 5,860     | 16,100 | 73       |     | 2,610 |           |
| 2000SY01S07              | 27948 Westwood   |              | 102  |    | 122,000 |     |     |      | 6,120     | 16,000 | 72.3     |     | 2,870 |           |
| 2000SY01S08              | 27919 Westwood   |              | 28.1 |    | 103,000 |     |     |      |           | 19,000 | 146      |     | 3,660 |           |
| 2000SY01S09              | 54280 Westwood   |              | 72.8 |    | 105,000 |     |     |      |           | 20,200 | 355      |     | 2,580 |           |
| 2000SY01S10              | 54231 Westwood   |              | 43.5 |    | 115,000 |     |     |      |           | 20,800 |          |     | 4,300 |           |
| 2000SY01S11              | 54305 Westwood   |              | 60.4 |    | 177,000 |     |     |      | 2,170     | 18,200 | 1,560    |     | 5,270 |           |
| 000SY01S12**             | 54287 Westwood** |              | 63.8 |    | 93,300  |     |     |      | 5,050     | 21,500 | 63.1     |     | 1,150 |           |
| 000SY01R12**             | 54287 Westwood** |              | 64.5 |    | 92,300  |     |     |      | 5,030     | 22,000 | 59.6     |     | 1,160 |           |
| 2000SY01S13              | 54125 Westwood   |              | 108  |    | 100,000 |     |     |      | 885       | 21,500 | 284      |     | 1,790 |           |
| 2000SY01S14              | E-3 (E3)         | 133          | 38.8 |    | 73,400  |     |     |      | 2,500     | 29,200 | 39       |     | 1,700 |           |

BLANK (Type indicated)  
 FIELD DUPLICATE

Empty Box indicates NON-DETECTABLE

NR = NOT RUN

NA=NOT AVAILABLE

Estimated

Bold = above action level

ACL = Secondary Maximum Contamination Limit

## Total Metals

pg 2

water

**Site Name:** Himco Dump  
**Site Number:** 7500044  
**Location:** Elkhart County, Elkhart, Indiana  
**Date Sampled:** 3/15/00 and 3/16/00  
**Date Reported:** 4/19/00  
**Lab:** Region 5 Central Regional Laboratories

UNITS: ug/L

| Sample #                 | Type/ID#         | Na      | V   | Zn          | Hg  | Sb | As | Cd  | Pb | Se | Tl |
|--------------------------|------------------|---------|-----|-------------|-----|----|----|-----|----|----|----|
| Lab                      | Reporting Limit  | 200     | 20  | 50          | 0.2 | 7  | 7  | 0.3 | 7  | 7  | 3  |
| MCLs and Action Levels > |                  | N/A     | N/A | 5,000(SMCL) | 2   | 6  | 50 | 5   | 15 | 50 | 2  |
| 2000SY01S01              | B-1              | 50,700  |     |             |     |    |    |     |    |    |    |
| 2000SY01S02              | B-3              | 19,700  |     |             |     |    |    |     |    |    |    |
| 2000SY01S03              | 54253 Westwood   | 14,500  |     |             |     |    |    |     |    |    |    |
| 2000SY01S04              | 54271 Westwood   | 22,600  |     |             |     |    |    |     |    |    |    |
| 2000SY01S05              | 54215 Westwood   | 126,000 |     | 96.5        |     |    |    |     |    |    |    |
| 2000SY01S06              | 27964 Westwood   | 13,500  |     |             |     |    |    |     |    |    |    |
| 2000SY01S07              | 27948 Westwood   | 33,200  |     |             |     |    |    |     |    |    |    |
| 2000SY01S08              | 27919 Westwood   | 56,700  |     |             |     |    |    |     |    |    |    |
| 2000SY01S09              | 54280 Westwood   | 65,400  |     |             |     |    |    |     |    |    |    |
| 2000SY01S10              | 54231 Westwood   | 82,500  |     | 160         |     |    |    |     |    |    |    |
| 2000SY01S11              | 54305 Westwood   | 44,400  |     |             |     |    |    |     |    |    |    |
| 2000SY01S12**            | 54287 Westwood** | 14,900  |     |             |     |    |    |     |    |    |    |
| 2000SY01R12**            | 54287 Westwood** | 14,700  |     |             |     |    |    |     |    |    |    |
| 2000SY01S13              | 54125 Westwood   | 17,600  |     |             |     |    |    |     |    |    |    |
| 2000SY01S14              | E-3 (E3)         | 11,900  |     |             |     |    | 8  |     |    |    |    |

BLANK (Type indicated)

Empty Box indicates NON-DETECTABLE

(Estimated)

FIELD DUPLICATE

NR = NOT RUN

NA=NOT AVAILABLE

**Bold = above action level**

MCL = Secondary Maximum Contamination Limit

### Total Metals

pg 1  
Water

Site Name: Himco Dump  
 Site Number: 7500044  
 Location: Elkhart County, Elkhart, Indiana  
 Date Sampled: 4/17/00 and 4/18/00  
 Date Reported: 6/12/00  
 Lab: Region 5 Central Regional Laboratories

UNITS: ug/L

| Sample #                 | Type/ID#         | Al           | Ba     | Be | Ca        | Cr  | Co   | Cu     | Fe             | Mg       | Mn       | Ni  | K       | Ag        |
|--------------------------|------------------|--------------|--------|----|-----------|-----|------|--------|----------------|----------|----------|-----|---------|-----------|
| Lab                      | Reporting Limit  | 118          | 2.6    | 2  | 148       | 6.7 | 13.2 | 9.3    | 46.5           | 11       | 1.9      | 21  | 217     | 11.1      |
| MCLs and Action Levels > |                  | 50-200(SMCL) | 2000   | 4  | N/A       | 100 | N/A  | 1300   | 300(SMCL)      | N/A      | 50(SMCL) | N/A | N/A     | 100(SMCL) |
| 2000SY04S01              | 54287 Westwood   |              | 66.6   |    | 88,100    |     |      | 31.3   | <b>5,780</b>   | 20,600   | 58.7     |     | 1,100   |           |
| 2000SY04S02              | 54280 Westwood   |              | 70.4   |    | 102,000   |     |      | 11.4   |                | 20,000   | 325      |     | 2,430   |           |
| 2000SY04S03              | 54271 Westwood   |              | 57.6   |    | 110,000   |     |      | 14.7   | <b>86</b>      | 24,000   | 380      |     | 1,880   |           |
| 2000SY04S04              | 54253 Westwood   |              | 131    |    | 90,000    |     |      | 34.8   | <b>1,710</b>   | 27,600   | 223      |     | 1,280   |           |
| 2000SY04S05              | 54231 Westwood   |              | 43.9   |    | 106,000   |     |      |        |                | 21,600   |          |     | 3,850   |           |
| 2000SY04S06              | 54215 Westwood   |              | 29.1   |    | 83,000    |     |      | 13.3   |                | 19,400   |          |     | 4,000   |           |
| 2000SY04S07              | 54125 Westwood   |              | 109    |    | 99,000    |     |      |        | <b>1,130</b>   | 21,500   | 299      |     | 1,760   |           |
| 2000SY04S08              | 27919 Westwood   |              | 39.3   |    | 132,000   |     |      | 13.3   | <b>100</b>     | 24,900   | 202      |     | 4,140   |           |
| 2000SY04S09              | 27883 Westwood   |              | 35.8   |    | 99,800    |     |      | 10.7   |                | 21,500   | 30       |     | 3,700   |           |
| 2000SY04S10**            | 54305 Westwood** | **           | 76.6** | ** | 205,000** | **  | **   | 15.2** | <b>2,790**</b> | 21,700** | 1,880**  | **  | 6,920** | **        |
| 2000SY04S11**            | 54305 Westwood** | **           | 63.2** | ** | 173,000** | **  | **   | 10.7** | <b>2,270**</b> | 18,200** | 1,560**  | **  | 5,170** | **        |
| 2000SY04S12              | 27964 Westwood   |              | 106    |    | 112,000   |     |      |        | <b>5,870</b>   | 15,700   | 72       |     | 2,340   |           |
| 2000SY04S13              | 27948 Westwood   |              | 92.3   |    | 97,500    |     |      | 62.1   | <b>5,530</b>   | 13,600   | 65.2     |     | 2,590   |           |

BLANK (Type indicated)  
 FIELD DUPLICATE

Empty Box indicates NON-DETECTABLE  
 NR = NOT RUN      NA=NOT AVAILABLE

Estimated  
 Bold = above action level

SMCL = Secondary Contamination Limit

## Total Metals

pg 2  
water

Site Name: Himco Dump  
 Site Number: 7500044  
 Location: Elkhart County, Elkhart, Indiana  
 Date Sampled: 4/17/00 through 4/19/00  
 Date Reported: 5/15/00, 5/18/00, 6/12/00  
 Lab: Region 5 Central Regional Laboratories

UNITS: ug/L

| Sample #                 | Type/ID#         | Na       | V   | Zn         | Hg  | Sb | As | Cd  | Pb | Se | Tl |
|--------------------------|------------------|----------|-----|------------|-----|----|----|-----|----|----|----|
| Lab                      | Reporting Limit  | 37.5     | 5.1 | 34.1       | 0.2 | 7  | 7  | 0.3 | 7  | 7  | 4  |
| MCLs and Action Levels > |                  | N/A      | N/A | 5000(SMCL) | 2   | 6  | 50 | 5   | 15 | 50 | 2  |
| 2000SY04S01              | 54287 Westwood   | 15,400   |     |            |     |    | 7  |     |    |    |    |
| 2000SY04S02              | 54280 Westwood   | 63,200   |     |            |     |    |    |     |    |    |    |
| 2000SY04S03              | 54271 Westwood   | 30,300   |     |            |     |    |    |     |    |    |    |
| 2000SY04S04              | 54253 Westwood   | 15,200   |     |            |     |    |    |     |    |    |    |
| 2000SY04S05              | 54231 Westwood   | 84,700   |     | 173        |     |    |    |     |    |    |    |
| 2000SY04S06              | 54215 Westwood   | 116,000  |     | 128        |     |    |    |     |    |    |    |
| 2000SY04S07              | 54125 Westwood   | 19,000   |     |            |     |    |    |     |    |    |    |
| 2000SY04S08              | 27919 Westwood   | 81,000   |     |            |     |    |    |     |    |    |    |
| 2000SY04S09              | 27883 Westwood   | 91,800   |     | 87.3       |     |    |    |     |    |    |    |
| 000SY04S10**             | 54305 Westwood** | 92,200** | **  | 39.1**     | **  | ** | ** | **  | ** | ** | ** |
| 000SY04S11**             | 54305 Westwood** | 73,400** | **  | **         | **  | ** | ** | **  | ** | ** | ** |
| 2000SY04S12              | 27964 Westwood   | 14,800   |     | 112.2      |     |    | 7  |     |    |    |    |
| 2000SY04S13              | 27948 Westwood   | 35,100   |     | 31.1       |     |    | 8  |     |    |    |    |
|                          |                  |          |     |            |     |    |    |     |    |    |    |
|                          |                  |          |     |            |     |    |    |     |    |    |    |

BLANK (Type indicated)  
 FIELD DUPLICATE

Empty Box indicates NON-DETECTABLE  
 NR = NOT RUN      NA=NOT AVAILABLE

Estimated  
 Bold = above action level

MCL = Secondary Contamination Limit

# General Chemical Analysis

Water

**Site Name:** Himco Dump  
**Site Number:** 7500044  
**Location:** Elkhart County, Elkhart, Indiana  
**Date Sampled:** 4/17/00 and 4/18/00  
**Date Reported:** 5/4/000  
**Lab:** Region 5 Central Regional Laboratories      UNITS: mg/L

| Sample #      | Type/ID#         | Sulfate    | Bromide |
|---------------|------------------|------------|---------|
| Lab           |                  |            |         |
|               | Reporting Limit  | 0.75       | 0.5     |
|               | Action Level >   | 250 (SMCL) | N/A     |
| 2000SY04S01   | 54287 Westwood   | 142        |         |
| 2000SY04S02   | 54280 Westwood   | 130        |         |
| 2000SY04S03   | 54271 Westwood   | 130        |         |
| 2000SY04S04   | 54253 Westwood   | 153        |         |
| 2000SY04S05   | 54231 Westwood   | 134        |         |
| 2000SY04S06   | 54215 Westwood   | 127        |         |
| 2000SY04S07   | 54125 Westwood   | 132        |         |
| 2000SY04S08   | 27919 Westwood   | 109        |         |
| 2000SY04S09   | 27883 Westwood   | 105        |         |
| 2000SY04S10** | 54305 Westwood** | 152**      | **      |
| 2000SY04S11** | 54305 Westwood** | 152**      | **      |
| 2000SY04S12   | 27964 Westwood   | 148        |         |
| 2000SY04S13   | 27948 Westwood   | 142        |         |

BLANK (Type indicated)  
FIELD DUPLICATE

Empty Box indicates NON-DETECTABLE  
NR = NOT RUN      NA=NOT AVAILABLE

**Estimated**  
Bold = above action level

MCL = Secondary Maximum Contamination Limit

### Total Metals

pg 1  
Water

Name: Himco Dump  
 Number: 7500044  
 Location: Elkhart County, Elkhart, Indiana  
 Date Sampled: 4/25/00 through 4/27/00  
 Date Reported: 6/12/00  
 Location: Region 5 Central Regional Laboratories

UNITS: ug/L

| Sample #                 | Type/ID#        | Al           | Ba   | Be | Ca      | Cr   | Co   | Cu   | Fe        | Mg      | Mn       | Ni   | K      | Ag        |
|--------------------------|-----------------|--------------|------|----|---------|------|------|------|-----------|---------|----------|------|--------|-----------|
| Lab                      | Reporting Limit | 118          | 3    | 2  | 50      | 6.7  | 30   | 9.3  | 46.5      | 11      | 1.9      | 21   | 217    | 11.1      |
| MCLs and Action Levels > |                 | 50-200(SMCL) | 2000 | 4  | N/A     | 100  | N/A  | 1300 | 300(SMCL) | N/A     | 50(SMCL) | N/A  | N/A    | 100(SMCL) |
| 000SY04S14               | GPE-1           | 2,640        | 99   |    | 351,000 | 46.7 |      | 23.5 | 19,100    | 47,000  | 751      | 26.2 | 8,490  |           |
| 000SY04S15               | GPE-2           | 3,960        | 170  |    | 471,000 | 154  |      | 55.1 | 38,400    | 58,800  | 957      | 38.2 | 12,500 |           |
| 000SY04S16               | GPE-3           | 3,190        | 120  |    | 211,000 | 90.3 |      | 27.9 | 17,800    | 31,100  | 490      | 22.4 | 9,000  |           |
| 000SY04S17               | WT102           |              |      |    | 648     |      |      |      |           | 197     |          |      |        |           |
| 000SY04S18               | WT102C          | 500          |      |    | 129,000 | 26.8 |      |      | 2,210     | 45,600  | 288      | 23.7 | 1,970  |           |
| 000SY04S19               | WT102B          |              |      |    | 75,800  | 24.2 |      |      | 1,580     | 22,300  | 91.9     |      | 1,840  |           |
| 000SY04S20               | WT102A          |              |      |    | 173,000 | 17.8 |      |      | 115       | 18,800  | 86.7     | 45.4 | 2,060  |           |
| 000SY04S21               | GP114-1         |              | 80.6 |    | 179,000 |      |      |      | 337       | 23,200  | 500      |      | 3,020  |           |
| 000SY04S22               | GP114-2         | 1,180        | 48.4 |    | 245,000 | 19.1 |      | 11.5 | 13,400    | 34,500  | 309      |      | 2,760  |           |
| 000SY04S23               | GP114-3         | 6,420        | 95.6 |    | 315,000 | 173  | 14.9 | 76.3 | 56,300    | 57,300  | 881      | 57.8 | 4,650  |           |
| 000SY04S24               | GP16-1          | 2,160        | 45.7 |    | 176,000 | 38.1 |      | 18.4 | 12,800    | 34,100  | 563      |      | 3,060  |           |
| 000SY04S25               | GP16-2          | 11,900       | 164  |    | 505,000 | 124  | 20.8 | 105  | 71,400    | 116,000 | 182      | 64.6 | 4,330  |           |
| 000SY04S26               | GP101-1         | 3,410        | 118  |    | 281,000 | 64.4 |      | 31.1 | 28,400    | 42,600  | 634      | 29.9 | 6,080  |           |
| 000SY04S27               | GP101-2         | 455          | 128  |    | 210,000 | 12.6 |      |      | 12,000    | 33,800  | 356      |      | 6,190  |           |
| 000SY04S28               | WT113B          |              | 68.4 |    | 101,000 |      |      |      | 1,210     | 21,400  | 97.6     |      | 2,040  |           |
| 000SY04S29               | WT113A          |              | 13.8 |    | 64,300  |      |      |      | 59.8      | 16,500  | 3.1      |      | 1,210  |           |
| 000SY04S30               | WTB1            |              | 122  |    | 52,500  |      |      |      | 527       | 20,900  | 40.1     |      | 2,100  |           |
| 000SY04S31               | WTB3            |              | 60.2 |    | 96,800  |      |      |      | 426       | 27,900  | 356      |      | 1,290  |           |
| 000SY04S32               | WTB4            |              | 37   |    | 69,400  |      |      |      | 415       | 21,200  | 206      |      | 759    |           |
| 000SY04S33**             | WT112B**        |              | 86.7 |    | 81,800  |      |      |      |           | 21,000  | 93.1     |      | 1,320  |           |
| 000SY04S34**             | WT112B**        |              | 86   |    | 79,900  |      |      |      |           | 20,900  | 94.5     |      | 1,380  |           |
| 000SY04S35               | WT112A          |              | 28.6 |    | 247,000 |      |      |      |           | 17,000  |          |      | 1,700  |           |
| 000SY04S36               | WTG3            |              | 79.4 |    | 76,400  |      |      |      |           | 23,500  | 21.8     |      | 1,260  |           |
| 000SY04S37               | WTG1            |              | 79.1 |    | 94,300  |      |      |      |           | 24,300  | 52.7     |      | 1,430  |           |
| 000SY04S38               | WT117A          | 827          | 41.3 |    | 70,900  | 9.3  |      |      |           | 12,000  | 206      |      | 2,180  |           |
| 000SY04S39               | WT117B          |              | 35.9 |    | 179,000 |      |      |      |           | 24,200  | 71.7     |      | 1,790  |           |

Blank (Type indicated)  
 Field Duplicate  
 Empty Box indicates NON-DETECTABLE  
 NR = NOT RUN  
 NA=NOT AVAILABLE  
 Estimated  
 Bold = above action level

CL = Secondary Maximum Contamination Limit

### Total Metals

pg 2  
water

Site Name: Himco Dump  
 ID Number: 7500044  
 Location: Elkhart County, Elkhart, Indiana  
 Date Sampled: 4/25/00 through 4/26/00  
 Date Reported: 6/8/00, 6/12/00 and 5/30/00  
 Lab: Region 5 Central Regional Laboratories

UNITS: ug/L

| Sample #                 | Type/ID#        | Na      | V    | Zn         | Hg  | Sb | As        | Cd               | Pb        | Se | Tl |
|--------------------------|-----------------|---------|------|------------|-----|----|-----------|------------------|-----------|----|----|
| Lab                      | Reporting Limit | 37.5    | 5.1  | 34.1       | 0.2 | 7  | 7         | 0.3              | 7         | 7  | 4  |
| MCLs and Action Levels > |                 | N/A     | N/A  | 5000(SMCL) | 2   | 6  | 50        | 5                | 15        | 50 | 2  |
| 000SY04S14               | GPE-1           | 62,200  | 8.2  | 94.1       |     |    |           |                  | <b>15</b> |    |    |
| 000SY04S15               | GPE-2           | 86,300  | 7.3  | 149        | 0.2 |    | 13        |                  | <b>27</b> |    |    |
| 000SY04S16               | GPE-3           | 31,500  |      | 86.1       |     |    |           |                  | 12        |    |    |
| 000SY04S17               | WT102           | 4,160   |      |            |     |    |           |                  |           |    |    |
| 000SY04S18               | WT102C          | 6,060   |      |            |     |    |           |                  |           |    |    |
| 000SY04S19               | WT102B          | 25,900  |      |            |     |    |           |                  |           |    |    |
| 000SY04S20               | WT102A          | 100,000 |      |            |     |    |           |                  |           |    |    |
| 000SY04S21               | GP114-1         | 178,000 |      |            |     |    |           |                  |           |    |    |
| 000SY04S22               | GP114-2         | 15,300  |      | 40.7       |     |    | 39        |                  | 9         |    |    |
| 000SY04S23               | GP114-3         | 17,300  | 8.8  | 156        |     |    | 38        | 0.3              | 35        | 8  |    |
| 000SY04S24               | GP16-1          | 21,600  |      | 43         |     |    | 7         |                  | 10        |    |    |
| 000SY04S25               | GP16-2          | 16,300  | 29.9 | 172        | 0.1 |    | <b>74</b> | 0.5 <sup>Ⓢ</sup> | 47        | 8  |    |
| 000SY04S26               | GP101-1         | 22,800  | 6    | 82.3       |     |    | 17        |                  | 27        |    |    |
| 000SY04S27               | GP101-2         | 25,200  |      | 34.3       |     |    |           |                  |           |    |    |
| 000SY04S28               | WT113B          | 15,300  |      |            |     |    |           |                  |           |    |    |
| 000SY04S29               | WT113A          | 14,200  |      |            |     |    |           |                  |           |    |    |
| 000SY04S30               | WTB1            | 55,100  |      | 36.9       |     |    |           |                  |           |    |    |
| 000SY04S31               | WTB3            | 20,300  |      |            |     |    |           |                  |           |    |    |
| 000SY04S32               | WTB4            | 4,600   |      |            |     |    |           |                  |           |    |    |
| 000SY04S33**             | WT112B**        | 22,800  |      |            |     |    |           |                  |           |    |    |
| 000SY04S34**             | WT112B**        | 23,300  |      |            |     |    |           |                  |           |    |    |
| 000SY04S35               | WT112A          | 13,800  |      |            |     |    |           |                  |           |    |    |
| 000SY04S36               | WTG3            | 18,400  |      |            |     |    |           |                  |           |    |    |
| 000SY04S37               | WTG1            | 13,800  |      |            |     |    |           |                  |           |    |    |
| 000SY04S38               | WT117A          | 5,110   |      |            |     |    |           |                  |           |    |    |
| 000SY04S39               | WT117B          | 17,100  |      |            |     |    |           |                  |           |    |    |

BLANK (Type indicated) Empty Box indicates NON-DETECTABLE [Estimated]  
 FIELD DUPLICATE NR = NOT RUN NA=NOT AVAILABLE Bold = above action level

lab report listed 0.6 ppb yet the chromatograph listed 0.5 ppb cadmium for 2000SY04S14. The lab narrative made no comments either.

MCL = Secondary Maximum Contamination Limit

## General Chemical Analysis

Water

**e Name:** Himco Dump  
**e Number:** 7500044  
**Location:** Elkhart County, Elkhart, Indiana  
**Date Sampled:** 4/25/00 through 4/27/00  
**Date Reported:** 12-Jun-00  
**Lab:** Region 5 Central Regional Laboratories      UNITS: mg/L

| Sample #     | Type/ID#        | Sulfate    | Bromide |
|--------------|-----------------|------------|---------|
| Lab          |                 |            |         |
|              | Reporting Limit | 0.75       | 0.5     |
|              | Action Level >  | 250 (SMCL) | N/A     |
| 000SY04S14   | GPE-1           | 389        |         |
| 000SY04S15   | GPE-2           | 646        |         |
| 000SY04S16   | GPE-3           | 288        |         |
| 000SY04S17   | WT102           |            |         |
| 000SY04S18   | WT102C          | 36         |         |
| 000SY04S19   | WT102B          | 58         |         |
| 000SY04S20   | WT102A          | 202        |         |
| 000SY04S21   | GP114-1         | 167        |         |
| 000SY04S22   | GP114-2         | 178        |         |
| 000SY04S23   | GP114-3         | 162        |         |
| 000SY04S24   | GP16-1          | 72         |         |
| 000SY04S25   | GP16-2          | 134        |         |
| 000SY04S26   | GP101-1         | 76         |         |
| 000SY04S27   | GP101-2         | 97         | 0.86    |
| 000SY04S28   | WT113B          | 131        | 1.33    |
| 000SY04S29   | WT113A          | 24         |         |
| 000SY04S30   | WTB1            |            |         |
| 000SY04S31   | WTB3            | 132        |         |
| 000SY04S32   | WTB4            | 38         |         |
| 000SY04S33** | WT112B**        | 56         |         |
| 000SY04S34** | WT112B**        | 56         |         |
| 000SY04S35   | WT112A          | 434        |         |
| 000SY04S36   | WTG3            | 32         |         |
| 000SY04S37   | WTG1            | 59         |         |
| 000SY04S38   | WT117A          | 169        |         |
| 000SY04S39   | WT117B          | 318        |         |

BLANK (Type indicated)

Empty Box indicates NON-DETECTABLE

Estimated

FIELD DUPLICATE

NR = NOT RUN

NA=NOT AVAILABLE

Bold = above action level

SMCL = Secondary Maximum Contamination Limit

# Total Metals

pg 1  
Water

Site Name: Himco Dump  
 Site Number: 7500044  
 Location: Elkhart County, Elkhart, Indiana  
 Date Sampled: 5/1/00 through 5/3/00, 4/28/00  
 Date Reported: 6/12/00  
 Lab: Region 5 Central Regional Laboratories

UNITS: ug/L

| Sample #                 | Type/ID#        | Al           | Ba   | Be | Ca      | Cr   | Co   | Cu   | Fe        | Mg     | Mn       | Ni   | K      | Ag        |
|--------------------------|-----------------|--------------|------|----|---------|------|------|------|-----------|--------|----------|------|--------|-----------|
| Lab                      | Reporting Limit | 118          | 2.6  | 2  | 148     | 6.7  | 13.2 | 9.3  | 46.5      | 79.4   | 1.9      | 21   | 217    | 11.1      |
| MCLs and Action Levels > |                 | 50-200(SMCL) | 2000 | 4  | N/A     | 100  | N/A  | 1300 | 300(SMCL) | N/A    | 50(SMCL) | N/A  | N/A    | 100(SMCL) |
| 20000SY04S40             | WT111A          | 463          | 256  |    | 113,000 |      |      |      | 12,600    | 19,100 | 1,440    |      | 8,380  |           |
| 20000SY04S41             | WT118B          |              | 93.4 |    | 193,000 |      |      |      | 5,790     | 20,000 | 126      |      | 7,800  |           |
| 20000SY04S42             | WT119A          |              | 94   |    | 215,000 |      |      |      | 2,650     | 70,800 | 318      |      | 22,200 |           |
| 20000SY04S43             | WT115A          | 8,860        | 105  |    | 241,000 | 12.8 |      | 19.7 | 6,500     | 12,400 | 380      |      | 4,440  |           |
| 20000SY04S44             | WTE2            |              | 43.5 |    |         |      |      |      |           |        |          |      |        |           |
| 20000SY04S45             | WTE1            |              | 51.3 |    | 174,000 |      |      |      | 5,150     | 35,500 | 204      |      | 4,120  |           |
| 20000SY04S46             | WTE3            |              | 8.1  |    | 58,300  |      |      |      | 2,240     | 23,800 | 21.1     |      | 1,810  |           |
| 20000SY04S47             | WT105A          |              | 160  |    | 57,400  | 23.9 |      |      | 407       | 16,500 | 160      | 73.3 | 1,360  |           |
| 20000SY04S48             | WT106A          | 3,090        | 77.6 |    | 175,000 | 21.6 |      | 11   | 2,760     | 26,800 | 559      |      | 4,200  |           |
| 20000SY04S49             | WT101C          | 152          | 83.1 |    | 47,900  | 7.7  |      |      | 1,380     | 20,100 | 20.5     |      | 4,130  |           |
| 20000SY04S50**           | WT101A**        |              | 83.1 |    | 258,000 |      |      |      | 16,300    | 27,300 | 1,610    |      | 6,730  |           |
| 20000SY04S51**           | WT101A**        |              | 82.4 |    | 242,000 |      |      |      | 16,100    | 27,500 | 1,540    |      | 6,810  |           |
| 20000SY04S52             | WT101B          |              | 72.3 |    | 137,000 |      |      |      | 2,850     | 52,800 | 36       |      | 6,280  |           |
| 20000SY04S53**           | WT116A**        |              | 79.9 |    | 666,000 |      |      | 15.8 | 31,900    | 66,900 | 1,810    |      | 19,600 |           |
| 20000SY04S54**           | WT116A**        |              | 79.6 |    | 685,000 |      |      | 15.5 | 32,400    | 66,100 | 1,800    |      | 18,900 |           |
| 20000SY04S55             | WT116B          |              | 135  |    | 203,000 |      |      |      | 3,710     | 22,900 | 206      |      | 5,780  |           |
| 20000SY04S56**           | WT114A**        |              | 101  |    | 192,000 |      |      |      | 6,510     | 18,600 | 276      |      | 3,390  |           |
| 20000SY04S57             | WT114B          |              | 69.4 |    | 108,000 |      |      |      | 6,320     | 17,500 | 92.5     |      | 2,700  |           |
| 20000SY04S58**           | WT114A**        |              |      |    | 140     |      |      |      |           |        |          |      |        |           |

\* BLANK (Type indicated) Empty Box indicates NON-DETECTABLE **Estimated**  
 \*\* FIELD DUPLICATE NR = NOT RUN NA=NOT AVAILABLE **Bold = above action level**

SMCL = Secondary Maximum Contamination Limit

## Total Metals

pg 2  
water

Site Name: Himco Dump  
 Site Number: 7500044  
 Location: Elkhart County, Elkhart, Indiana  
 Date Sampled: 5/1/00 through 5/3/00, 4/28/00  
 Date Reported: 6/12/2000 and 6/15/2000  
 Lab: Region 5 Central Regional Laboratories

UNITS: ug/L

| Sample #                 | Type/ID#        | Na      | V    | Zn         | Hg  | Sb | As | Cd  | Pb | Se | Tl |
|--------------------------|-----------------|---------|------|------------|-----|----|----|-----|----|----|----|
| Lab                      | Reporting Limit | 37.5    | 5.1  | 34.1       | 0.2 | 7  | 7  | 0.3 | 7  | 7  | 4  |
| MCLs and Action Levels > |                 | N/A     | N/A  | 5000(SMCL) | 2   | 6  | 50 | 5   | 15 | 50 | 2  |
| 20000SY04S40             | WT111A          | 39,400  |      |            |     |    |    |     |    |    |    |
| 20000SY04S41             | WT118B          | 18,700  |      |            |     |    |    |     |    |    |    |
| 20000SY04S42             | WT119A          | 61,100  |      |            |     |    |    |     |    |    |    |
| 20000SY04S43             | WT115A          | 24,600  | 14.5 | 37.7       |     |    |    |     | 11 |    |    |
| 20000SY04S44             | WTE2            |         |      |            |     |    |    |     |    |    |    |
| 20000SY04S45             | WTE1            | 19,100  |      |            |     |    |    |     |    |    |    |
| 20000SY04S46             | WTE3            | 12,400  |      |            |     |    |    |     |    |    |    |
| 20000SY04S47             | WT105A          | 7,720   |      |            |     |    |    |     |    |    |    |
| 20000SY04S48             | WT106A          | 29,300  |      |            |     |    | 46 |     |    |    |    |
| 20000SY04S49             | WT101C          | 36,100  |      |            |     |    | 10 |     |    |    |    |
| 20000SY04S50**           | WT101A**        | 66,800  |      |            |     |    |    |     |    |    |    |
| 20000SY04S51**           | WT101A**        | 65,200  |      |            |     |    |    |     |    |    |    |
| 20000SY04S52             | WT101B          | 43,100  |      |            |     |    |    |     |    |    |    |
| 20000SY04S53**           | WT116A**        | 161,000 |      | 178        |     |    |    |     |    |    |    |
| 20000SY04S54**           | WT116A**        | 160,000 |      | 194        |     |    |    |     | 13 |    |    |
| 20000SY04S55             | WT116B          | 23,500  |      |            |     |    |    |     |    |    |    |
| 20000SY04S56**           | WT114A**        | 123,000 |      |            |     |    | 9  |     |    |    |    |
| 20000SY04S57             | WT114B          | 14,100  |      |            |     |    | 9  |     |    |    |    |
| 20000SY04S58**           | WT114A**        |         |      |            |     |    |    |     |    |    |    |

\* BLANK (Type indicated) Empty Box indicates NON-DETECTABLE Estimated  
 \*\* FIELD DUPLICATE NR = NOT RUN NA=NOT AVAILABLE **Bold = above action level**

SMCL = Secondary Maximum Contamination Limit

## General Chemical Analysis

Site Name: Himco Dump  
 Site Number: 7500044  
 Location: Elkhart County, Elkhart, Indiana  
 Date Sampled: 4/28/00,5/1/00,5/2/00  
 Date Reported: 6/1/00  
 Lab: Region 5 Central Regional Laboratories UNITS: mg/L

Water

| Sample #       | Type/ID#        | Sulfate    | Bromide |
|----------------|-----------------|------------|---------|
| Lab            |                 |            |         |
|                | Reporting Limit | 0.75       | 0.5     |
|                | Action Level >  | 250 (SMCL) | N/A     |
| 20000SY04S40   | WT111A          | 264        |         |
| 20000SY04S41   | WT118B          | 351        |         |
| 20000SY04S42   | WT119A          | 420        |         |
| 20000SY04S43   | WT115A          | 254        | 0.62    |
| 20000SY04S44   | WTE2            |            |         |
| 20000SY04S45   | WTE1            | 347        |         |
| 20000SY04S46   | WTE3            | 57         |         |
| 20000SY04S47   | WT105A          | 36         |         |
| 20000SY04S48   | WT106A          | 146        |         |
| 20000SY04S49   | WT101C          |            | 0.88    |
| 20000SY04S50** | WT101A**        | 218        | 0.52    |
| 20000SY04S51** | WT101A**        | 215        | 0.53    |
| 20000SY04S52   | WT101B          | 211        |         |
| 20000SY04S53** | WT116A**        | 1,260      | 2.38    |
| 20000SY04S54** | WT116A**        | 1,250      | 2.42    |
| 20000SY04S55   | WT116B          | 143        |         |
| 20000SY04S56** | WT114A**        | 177        |         |
| 20000SY04S57   | WT114B          | 156        |         |
| 20000SY04S58** | WT114A**        |            |         |

\* BLANK (Type indicated)

\*\* FIELD DUPLICATE

Empty Box indicates NON-DETECTABLE

NR = NOT RUN

NA=NOT AVAILABLE

Estimated

**Bold = above action level**

SMCL = Secondary Maximum Contamination Limit

APR 13 2000

PAGE 1 of 8

Regional Transmittal Form

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION V

DATE:

SUBJECT: Review of Data  
Received for Review on 4-3-2000

FROM: Stephen L. Ostrodka, Chief (SMF-4J)  
Superfund Field Services Section

*for Steve Ostrodka  
Michael L. Byrnie  
4/17/00*

TO: Data User: USEPA

We have reviewed the data for the following case:

SITE NAME: HIMCO DUMP FL. (IN)

CASE NUMBER: 27876 SDG NUMBER: EDCJ8

Number and Type of Samples: 20 Waters

Sample Numbers: EDCJ8, EDCKΦ-6,9, EDCLΦ-3,4, EDCJ4,5,9

EDCK8 EDCM1,2

Laboratory: ENVSYS Hrs for Review: 12.5

Following are our findings:

*The data are usable and acceptable with the  
qualification described in the attached narrative.*

*Michael L. Byrnie*

CC: Cecilia Moore  
Region 5 TPO  
Mail Code: SM-5J

NARRATIVE

LABORATORY: ENVIROSYSTEMS, INC.

Page 2 of 3

SDG: EDCJ8

CASE: 27876

SITE: HIMCO DUMP (IN)

This review covers twenty (20) low concentration water samples, numbered EDCJ4, EDCJ5, EDCJ8, EDCJ9, EDCK0 - EDCK6, EDCK8, EDCK9, EDCL0 - EDCL4, EDCM1 and EDCM2, were collected on 03/14, 15, and 16/2000. The Envirosystems, Inc., of Columbia, MD received the samples on March 17, 2000, in good condition. The samples were analyzed for low concentration VOA, SVOA. Sample EDCL1 is identified as a Trip Blank and were analyzed for VOA only. Samples EDCL2, EDCL3, EDCM1 and EDCM2 were also analyzed for VOA only. All samples were analyzed per CLP SOW OLC02.1.

Laboratory Control Samples (LCS) Identified as VLCSBG (VOA) and SCLS06 (SVOA) were analyzed in place of matrix spike/matrix spike duplicate (MS/MSD) samples.

Sample EDCL1 was identified as a Trip Blank. No samples appeared to be duplicate samples.

The VOA samples were analyzed within the holding time of fourteen (14) days for preserved water samples and the SVOA samples were extracted within the required holding time of seven days. The analysis of the semivolatile extracts were performed within forty (40) days. Therefore, the results for the VOA and the SVOA fractions are acceptable.

The reviewer's narrative and data qualifiers are noted in the following pages.

Reviewed by: W. Ira Wilson\_\_Lockheed-Martin/ESAT

Date: \_\_April 04 , 2000

NARRATIVE

LABORATORY: ENVIROSYSTEMS, INC.  
SDG: EDCJ8

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CASE: 27876  
SITE: HIMCO DUMP (IN)

Below is a summary of the out-of-control audits and the possible effect on the data for this case.

**1. HOLDING TIME**

This review covers twenty (20) low concentration water samples, numbered EDCJ4, EDCJ5, EDCJ8, EDCJ9, EDCK0 - EDCK6, EDCK8, EDCK9, EDCL0 - EDCL4, EDCM1 and EDCM2, were collected on 03/14, 15 and 16/2000. The Envirosystems, Inc., Columbia, MD received the samples on March 17, 2000 in good condition. The samples were analyzed for low concentration VOA and SVOA. Sample ECCL1 is identified as a Trip Blank and were analyzed for VOA only. Samples EDCL2, EDCL3 EDCM1 and EDCM2 were also analyzed for VOA only. All samples were analyzed per CLP SOW OLC02.1.

The VOA samples were analyzed within the holding time of fourteen (14) days for preserved water samples; therefore, the results are acceptable.

The SVOA samples were extracted within the holding time of seven (7) days. The extracts were promptly analyzed within the required 40 days criteria. Therefore; the results are acceptable.

**2. GC/MS TUNING AND GC PERFORMANCE**

The GC/MS tuning complied with the mass list and ion abundance criteria for BFB and DFTPP.

The Florisil Cartridge Check met the required QC criteria; therefore, the results are acceptable.

**3. CALIBRATION**

Initial and continuing calibration standards of VOA and SVOA were evaluated for the Target Compounds List (TCL) and outliers were recorded on the outlier forms included as a part of this narrative.

**4. METHOD BLANK**

Blanks VBLKBG and VBLKBH are the low concentration water Volatile Method Blanks. The Method Blank VBLKBG was clean, no TCLs or TICs

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reported. Method Blank VBLKBH reported a detectable amount of Methylene Chloride ( $0.7\mu\text{g/L}$ ) a common laboratory contaminant. Therefore, the presence of this contaminant in the samples associated with the Blank, VBLKBH, is qualified as non-detected (U) when the sample results are less than ten (10) times the Blank results. Blank VHBLKBH is identified as a Holding Blank sample which was also clean.

Please refer to Form I LCV for a list of associated samples.

Blank SBLK73 and SBLK76 are the Low Conc. water Semivolatile Method Blanks. Blank SBLK73 reported no TICs and no TCLs. Blank SBLK76 reported a detectable amount of Butylbenzylphthalate at  $3\mu\text{g/L}$  which is a common laboratory contaminant and no TICs. The presence of this contaminant in samples associated with SBLK76 is qualified as non-detected "U" when the samples results are less than ten (10) times the Blank results.

Please refer to Form-IV LCSV for a list of associated samples.

**5. SURROGATE RECOVERY AND SYSTEM MONITORING COMPOUNDS**

The low concentration recovery of the system monitoring spiking Compound (BFB = Bromofluorobenzene) for the volatile analysis and the recovery of the surrogate spiking compounds for the semivolatile analysis met the required QC limits for all samples; therefore, all results are acceptable.

**6. MATRIX SPIKE/MSD SAMPLES**

A Laboratory Control (LCS) Samples identified as VLCSBG (for volatile) and SLCS06 (for semivolatile) were used in place of a matrix spike/matrix spike duplicate sample for the low concentration analysis. All spike recoveries were within the QC limits; therefore, the results are acceptable.

**7. FIELD BLANK AND FIELD DUPLICATE**

Sample EDCL1 was identified as a Trip Blank analyzed for volatiles only. The sample was clean; no TCLs or TICs were reported.

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Date: \_\_April 04 , 2000

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LABORATORY: ENVIROSYSTEMS, INC.

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SDG: EDCJ8

CASE: 27876

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8. INTERNAL STANDARDS

The internal standard retention times and area counts for the low concentration volatile and semivolatile samples were within the required QC limits; therefore, the results are acceptable.

9. COMPOUND IDENTIFICATION

Target compounds and TICs were correctly identified by "best fit" library search method.

10. COMPOUND QUANTITATION AND REPORTED DETECTION LIMITS

VOA and SVOA Target Compounds (TCLs) and Tentative Identified Compounds (TICs) were properly quantitated; therefore, the results are acceptable.

11. SYSTEM PERFORMANCE

The GC/MS baseline indicated acceptable performance.

12. ADDITIONAL INFORMATION

None

Reviewed by: W. Ira Wilson\_\_Lockheed-Martin/ESAT

Date: \_\_April 04 , 2000

EMPA CONCENTRATION IN WATER AND AILE TOXIC IMPURITIES

10/2007

CASE SAS# 27876  
 COLLUM# RTA 502.2  
 TED PURGE(Y/N)

LABORATORY: ENVIRONMENTAL SYSTEMS, INC  
 SITE NAME: HUMCO DUMP

| Instrument#                 | Date/Time | Initial Cal |      |      | Contin Cal |      |   | Contin Cal |      |   | Contin Cal |    |   |
|-----------------------------|-----------|-------------|------|------|------------|------|---|------------|------|---|------------|----|---|
|                             |           | #           | ff   | %rsd | #          | %d   | J | #          | %d   | J | #          | %d | J |
| E5100B                      |           |             |      |      |            |      |   |            |      |   |            |    |   |
|                             |           |             |      |      |            |      |   |            |      |   |            |    |   |
| Chloromethane               | 0.01      |             |      |      |            |      |   |            |      |   |            |    |   |
| Bromethane                  | 0.10      | 0.040       | 44.6 | J    | 0.060      | 50.0 | J | 0.056      | 40.0 | J |            |    |   |
| Vinyl chloride              | 0.10      | 0.101       |      |      | 0.131      | 29.7 | J | 0.131      | 29.7 | J |            |    |   |
| Chloroethane                | 0.01      |             |      |      |            |      |   |            |      |   |            |    |   |
| Methylene chloride          | 0.01      |             |      |      |            |      |   |            |      |   |            |    |   |
| Acetone                     | 0.01      | 0.012       | 40.2 | J    | 0.009      |      |   | 0.010      |      |   |            |    |   |
| Carbon disulfide            | 0.01      | 0.329       |      |      | 0.434      | 72.3 | J | 0.403      |      |   |            |    |   |
| 1,1-Dichloroethene          | 0.10      | 0.186       |      |      | 0.235      | 26.3 | J | 0.240      | 29.0 | J |            |    |   |
| 1,1-Dichloroethane          | 0.20      |             |      |      |            |      |   |            |      |   |            |    |   |
| cis-1,2-Dichloroethene      | 0.10      |             |      |      |            |      |   |            |      |   |            |    |   |
| trans-1,2-Dichloroethene    | 0.10      |             |      |      |            |      |   |            |      |   |            |    |   |
| Chloroform                  | 0.20      |             |      |      |            |      |   |            |      |   |            |    |   |
| 1,2-Dichloroethane          | 0.10      | 0.196       |      |      |            |      |   | 0.141      | 29.1 | J |            |    |   |
| 2-Butanone                  | 0.01      | 0.022       |      |      |            |      |   | 0.016      | 27.3 | J |            |    |   |
| Bromochloromethane          | 0.05      | 0.136       |      |      | 0.174      | 27.9 | J | 0.169      |      |   |            |    |   |
| 1,1,1-Trichloroethane       | 0.10      |             |      |      |            |      |   |            |      |   |            |    |   |
| Carbon tetrachloride        | 0.10      |             |      |      |            |      |   |            |      |   |            |    |   |
| 1,1,2-Trichloroethane       | 0.20      |             |      |      |            |      |   |            |      |   |            |    |   |
| 1,1-Dichloropropane         | 0.01      |             |      |      |            |      |   |            |      |   |            |    |   |
| cis-1,3-Dichloropropene     | 0.20      | 0.236       |      |      | 0.274      | 26.3 | J | 0.170      | 28.0 | J |            |    |   |
| Trichloroethene             | 0.30      |             |      |      |            |      |   |            |      |   |            |    |   |
| Dibromochloromethane        | 0.10      |             |      |      |            |      |   |            |      |   |            |    |   |
| 1,1,2-trichloroethane       | 0.10      |             |      |      |            |      |   |            |      |   |            |    |   |
| Benzene                     | 0.40      |             |      |      |            |      |   |            |      |   |            |    |   |
| trans-1,3-Dichloropropene   | 0.10      | 0.124       |      |      | 0.087      | 29.8 | J | 0.085      | 31.4 | J |            |    |   |
| Bromoform                   | 0.05      |             |      |      |            |      |   |            |      |   |            |    |   |
| 4-Methyl-2-Pentanone        | 0.01      | 0.046       |      |      | 0.023      | 50.0 | J | 0.022      | 52.2 | J |            |    |   |
| Hexanone                    | 0.01      | 0.025       | 45.0 | J    | 0.010      | 60.0 | J | 0.006      | 76.0 | J |            |    |   |
| 1,1-Dichloroethane          | 0.10      |             |      |      |            |      |   |            |      |   |            |    |   |
| 1,1,2,2-Tetrachloroethane   | 0.10      |             |      |      |            |      |   |            |      |   |            |    |   |
| 1,2-Dibromoethane           | 0.10      |             |      |      |            |      |   |            |      |   |            |    |   |
| Toluene                     | 0.40      | 0.180       |      |      | 0.220      | 27.0 | J | 0.087      | 25.2 | J |            |    |   |
| Chlorobenzene               | 0.50      |             |      |      |            |      |   |            |      |   |            |    |   |
| Ethylbenzene                | 0.10      |             |      |      |            |      |   |            |      |   |            |    |   |
| Styrene                     | 0.30      |             |      |      |            |      |   |            |      |   |            |    |   |
| Xylene (total)              | 0.30      |             |      |      |            |      |   |            |      |   |            |    |   |
| 1,2-Dibromo-3-chloropropane | 0.10      | 0.021       | 53.9 | J    | 0.022      |      |   | 0.022      |      |   |            |    |   |
| 1,3-Dichlorobenzene         | 0.40      |             |      |      |            |      |   |            |      |   |            |    |   |
| 1,4-Dichlorobenzene         | 0.40      |             |      |      |            |      |   |            |      |   |            |    |   |
| 1,2-Dichlorobenzene         | 0.40      |             |      |      |            |      |   |            |      |   |            |    |   |
| 1,4-Trichlorobenzene        | 0.40      |             |      |      |            |      |   |            |      |   |            |    |   |
| 4-Bromofluorobenzene        | 0.20      |             |      |      |            |      |   |            |      |   |            |    |   |

| Samples affected: |               | VBLK BG             | VBLK BH  |
|-------------------|---------------|---------------------|----------|
|                   |               | EDC J8              | EDC K8   |
|                   |               | EDCK0-K6            | EDCL4    |
|                   |               | EDCK9               | EDCM1    |
|                   |               | <del>EDCL0-J5</del> | EDCM2    |
|                   | W/A<br>4/4/00 | EDCL0-K3            | VHBLK BH |
|                   |               | EDCL54-J5           |          |
|                   |               | EDC J9              |          |
|                   |               | VLC SBG             |          |

Reviewer's Init /Date W/A  
4/4/00

J/R= All positive results are estimated "J" and non-detected results are unusable "R"  
 \* = These flags should be applied to the analytes on the sample data sheets  
 # = Minimum Relative Response Factor

CALIBRATION OUTLIER  
LOW CONCENTRATION WATER SEMIVOLATILE TCL COMPOUNDS

CASE/SAS#: 27876  
COLUMN: \_\_\_\_\_

(Page 1 of 2)

LABORATORY: ENVIRO SYSTEMS  
SITE NAME: HUMCO DUMP

| Instrument#                 | F5100A | Initial Cal.           |       |     | Contin. Cal. |           |      | Contin. Cal. |            |      | Contin. Cal. |    |    | Contin. Cal. |    |    |   |
|-----------------------------|--------|------------------------|-------|-----|--------------|-----------|------|--------------|------------|------|--------------|----|----|--------------|----|----|---|
|                             |        | 3/17/00-9013/29/00-829 |       |     | 3/17/00-735  |           |      |              |            |      |              |    |    |              |    |    |   |
| Date/Time:                  |        | #                      | rf    | %rd | *            | rf        | %d   | *            | rf         | %d   | *            | rf | %d | *            | rf | %d | * |
| Phenol                      |        | 0.80                   |       |     |              |           |      |              |            |      |              |    |    |              |    |    |   |
| bis(2-chloroethyl) Ether    |        | 0.70                   |       |     |              |           |      |              |            |      |              |    |    |              |    |    |   |
| 2-Chlorophenol              |        | 0.70                   |       |     |              |           |      |              |            |      |              |    |    |              |    |    |   |
| 2-Methylphenol              |        | 0.70                   |       |     |              |           |      |              |            |      |              |    |    |              |    |    |   |
| 2,2'-Oxybis(1-chl-propane)  |        | 0.01                   |       |     |              |           |      |              |            |      |              |    |    |              |    |    |   |
| 4-Methylphenol              |        | 0.60                   |       |     |              |           |      |              |            |      |              |    |    |              |    |    |   |
| N-nitroso-di-n-propylamine  |        | 0.50                   |       |     |              |           |      |              |            |      |              |    |    |              |    |    |   |
| Hexachloroethane            |        | 0.30                   |       |     |              |           |      |              |            |      |              |    |    |              |    |    |   |
| Nitrobenzene                |        | 0.20                   |       |     |              |           |      |              |            |      |              |    |    |              |    |    |   |
| Isophorone                  |        | 0.40                   |       |     |              |           |      |              |            |      |              |    |    |              |    |    |   |
| 2-Nitrophenol               |        | 0.10                   |       |     |              |           |      |              |            |      |              |    |    |              |    |    |   |
| 2,4-Dimethylphenol          |        | 0.20                   |       |     |              |           |      |              |            |      |              |    |    |              |    |    |   |
| bis-(2-chloroethoxy)methane |        | 0.30                   |       |     |              |           |      |              |            |      |              |    |    |              |    |    |   |
| 2,4-Dichlorophenol          |        | 0.20                   |       |     |              |           |      |              |            |      |              |    |    |              |    |    |   |
| 1,2,4-Trichlorobenzene      |        | 0.20                   |       |     |              |           |      |              |            |      |              |    |    |              |    |    |   |
| Naphthalene                 |        | 0.70                   |       |     |              |           |      |              |            |      |              |    |    |              |    |    |   |
| 4-Chloroaniline             |        | 0.01                   |       |     |              |           |      |              |            |      |              |    |    |              |    |    |   |
| Hexachlorobutadiene         |        | 0.01                   |       |     |              |           |      |              |            |      |              |    |    |              |    |    |   |
| 4-Chloro-3-methylphenol     |        | 0.20                   |       |     |              |           |      |              |            |      |              |    |    |              |    |    |   |
| 2-Methylnaphthalene         |        | 0.40                   |       |     |              |           |      |              |            |      |              |    |    |              |    |    |   |
| Hexachlorocyclopentadiene   |        | 0.01                   |       |     |              |           |      |              |            |      |              |    |    |              |    |    |   |
| 2,4,6-Trichlorophenol       |        | 0.20                   |       |     |              |           |      |              |            |      |              |    |    |              |    |    |   |
| 2,4,5-Trichlorophenol       |        | 0.20                   |       |     |              |           |      |              |            |      |              |    |    |              |    |    |   |
| 2-Chloronaphthalene         |        | 0.80                   |       |     |              |           |      |              |            |      |              |    |    |              |    |    |   |
| 2-Nitroaniline              |        | 0.01                   |       |     |              |           |      |              |            |      |              |    |    |              |    |    |   |
| Dimethyl phthalate          |        | 0.01                   |       |     |              |           |      |              |            |      |              |    |    |              |    |    |   |
| Acenaphthylene              |        | 1.30                   |       |     |              |           |      |              |            |      |              |    |    |              |    |    |   |
| 2,6-Dinitrotoluene          |        | 0.20                   |       |     |              |           |      |              |            |      |              |    |    |              |    |    |   |
| 3-Nitroaniline              |        | 0.01                   | 0.231 |     |              | 0.383     | 68.9 | J            | 0.366      | 58.4 | J            |    |    |              |    |    |   |
| Acenaphthene                |        | 0.30                   |       |     |              |           |      |              |            |      |              |    |    |              |    |    |   |
| 2,4-Dinitrophenol           |        | 0.01                   | 0.139 |     |              | 0.196     | 46.0 | J            | 0.191      | 37.4 | J            |    |    |              |    |    |   |
| 4-Nitrophenol               |        | 0.01                   | 0.185 |     |              | 0.314     | 69.7 | J            | 0.288      | 55.7 | J            |    |    |              |    |    |   |
| Dibenzofuran                |        | 0.80                   |       |     |              |           |      |              |            |      |              |    |    |              |    |    |   |
| 2,4-Dinitrotoluene          |        | 0.20                   | 0.344 |     |              | 0.444     | 28.2 | J            | 0.454      | 32.0 | J            |    |    |              |    |    |   |
| Affected samples:           |        |                        |       |     |              | SBLK 73   |      |              | EDCK 5     |      |              |    |    |              |    |    |   |
|                             |        |                        |       |     |              | SUC 906   |      |              | EDCK 6, K9 |      |              |    |    |              |    |    |   |
|                             |        |                        |       |     |              | EDC 58    |      |              | EDC 60     |      |              |    |    |              |    |    |   |
|                             |        |                        |       |     |              | EDCK 0-K4 |      |              | EDC 34, J5 |      |              |    |    |              |    |    |   |
|                             |        |                        |       |     |              | EDC 1A    |      |              | EDC 39     |      |              |    |    |              |    |    |   |
|                             |        |                        |       |     |              | SBLK 76   |      |              | EDCK 8     |      |              |    |    |              |    |    |   |

Reviewer's Init/Date: WJH  
4/9/00

J/R = All positive results are estimated "J" and non-detected results are unusable "R"

- \* = These flags should be applied to the analytes on the sample data sheets.
- # = Minimum Relative Response Factor

CALIBRATION OUTLIER  
 LOW CONCENTRATION WATER SEMIVOLATILE TCL COMPOUNDS  
 (Page 2 of 2)

CASE/SAS#: 27876  
 COLUMN: \_\_\_\_\_

LABORATORY: ENVIRONMENTAL SYSTEMS  
 SITE NAME: HUNCO DUMP

| Instrument#                | Date/Time: | Initial Cal. |       |      | Contin. Cal. |       |       | Contin. Cal. |       |       | Contin. Cal. |    |    | Contin. Cal. |    |    |   |
|----------------------------|------------|--------------|-------|------|--------------|-------|-------|--------------|-------|-------|--------------|----|----|--------------|----|----|---|
|                            |            | #            | rf    | %rd  | *            | rf    | %d    | *            | rf    | %d    | *            | rf | %d | *            | rf | %d | * |
| FS100A                     |            |              |       |      |              |       |       |              |       |       |              |    |    |              |    |    |   |
|                            |            |              |       |      |              |       |       |              |       |       |              |    |    |              |    |    |   |
| Diethylphthalate           |            | 0.01         |       |      |              |       |       |              |       |       |              |    |    |              |    |    |   |
| 4-Chlorophenyl-phenylether |            | 0.40         |       |      |              |       |       |              |       |       |              |    |    |              |    |    |   |
| Fluorene                   |            | 0.90         |       |      |              |       |       |              |       |       |              |    |    |              |    |    |   |
| 4-Nitroaniline             |            | 0.01         | 0.447 | 42.4 | J            | 0.315 | 114.3 | J            | 0.289 | 196.6 | J            |    |    |              |    |    |   |
| 4,6-Dinitro-2-methylphenol |            | 0.01         |       |      |              |       |       |              |       |       |              |    |    |              |    |    |   |
| N-nitrosodiphenylamine     |            | 0.01         |       |      |              |       |       |              |       |       |              |    |    |              |    |    |   |
| 4-Bromophenyl-phenylether  |            | 0.10         |       |      |              |       |       |              |       |       |              |    |    |              |    |    |   |
| Hexachlorobenzene          |            | 0.10         |       |      |              |       |       |              |       |       |              |    |    |              |    |    |   |
| Pentachlorophenol          |            | 0.05         |       |      |              |       |       |              |       |       |              |    |    |              |    |    |   |
| Phenanthrene               |            | 0.70         |       |      |              |       |       |              |       |       |              |    |    |              |    |    |   |
| Anthracene                 |            | 0.70         |       |      |              |       |       |              |       |       |              |    |    |              |    |    |   |
| Di-n-butylphthalate        |            | 0.01         |       |      |              |       |       |              |       |       |              |    |    |              |    |    |   |
| Fluoranthene               |            | 0.60         |       |      |              |       |       |              |       |       |              |    |    |              |    |    |   |
| Pyrene                     |            | 0.60         |       |      |              |       |       |              |       |       |              |    |    |              |    |    |   |
| Butylbenzylphthalate       |            | 0.01         |       |      |              |       |       |              |       |       |              |    |    |              |    |    |   |
| 3,3'-Dichlorobenzidine     |            | 0.01         | 0.702 | 62.0 | J            | 0.302 | 149.5 | J            | 0.213 |       |              |    |    |              |    |    |   |
| Benzo(a)anthracene         |            | 0.80         |       |      |              |       |       |              |       |       |              |    |    |              |    |    |   |
| Chrysene                   |            | 0.70         |       |      |              |       |       |              |       |       |              |    |    |              |    |    |   |
| bis(2-Ethylhexyl)phthalate |            | 0.01         |       |      |              |       |       |              |       |       |              |    |    |              |    |    |   |
| Di-n-octyl phthalate       |            | 0.01         |       |      |              |       |       |              |       |       |              |    |    |              |    |    |   |
| Benzo(b)fluoranthene       |            | 0.70         |       |      |              |       |       |              |       |       |              |    |    |              |    |    |   |
| Benzo(k)fluoranthene       |            | 0.70         | 1.339 |      |              | 1.336 |       |              | 1.724 | 128.8 | J            |    |    |              |    |    |   |
| Benzo(a)pyrene             |            | 0.70         |       |      |              |       |       |              |       |       |              |    |    |              |    |    |   |
| Indeno(1,2,3-cd)pyrene     |            | 0.50         |       |      |              |       |       |              |       |       |              |    |    |              |    |    |   |
| Dibenz(a,h)anthracene      |            | 0.40         | 0.658 |      |              | 0.821 | 125.3 | J            | 0.449 | 29.6  | J            |    |    |              |    |    |   |
| Benzo(g,h,i)perylene       |            | 0.50         |       |      |              |       |       |              |       |       |              |    |    |              |    |    |   |
| Nitrobenzene-d5            |            | 0.01         |       |      |              |       |       |              |       |       |              |    |    |              |    |    |   |
| 2-Fluorobiphenyl           |            | 0.70         |       |      |              |       |       |              |       |       |              |    |    |              |    |    |   |
| Terphenyl-d14              |            | 0.50         |       |      |              |       |       |              |       |       |              |    |    |              |    |    |   |
| Phenol-d5                  |            | 0.80         |       |      |              |       |       |              |       |       |              |    |    |              |    |    |   |
| 2-Fluorophenol             |            | 0.60         |       |      |              |       |       |              |       |       |              |    |    |              |    |    |   |
| 2,4,6-Tribromophenol       |            | 0.01         |       |      |              |       |       |              |       |       |              |    |    |              |    |    |   |

Reviewer's Init/Date: WJH  
4/4/00

J/R = All positive results are estimated "J" and non-detected results are unusable "R"

- \* = These flags should be applied to the analytes on the sample data sheets.
- # = Minimum Relative Response Factor

## ORGANIC DATA QUALIFIER DEFINITIONS

For the purpose of defining the flagging nomenclature used in this document, the following code letters and associated definitions are provided:

**VALUE** - when/if the result of a value is greater than or equal to the Contract Required Quantitation Limit (CRQL).

- U** Indicates that the compound was analyzed for, but not detected. The sample quantitation limit corrected for dilution and percent moisture is reported.
- J** Indicates an estimated value. This flag is used either when estimating a concentration for a tentatively identified compound or when the data indicates the presence of a compound where the result is less than the sample quantitation limit, but greater than zero. The flag is also used to indicate a reported result having an associated QC problem.
- R** Indicates the data are unusable. (NOTE: The analyte may or may not be present.)
- N** Indicates presumptive evidence of a compound. This flag is only used for a tentatively identified compound, where the identification is based on a mass spectral library search.
- P** Indicates a pesticide/Aroclor target analyte when there is greater than 25% difference for the detected concentrations between the two GC columns. The lower of the two results is reported.
- C** Indicates pesticide results that have been confirmed by GC/MS.
- B** Indicates the analyte is detected in the associated blank as well as in the sample.
- E** Indicates compounds whose concentrations exceed the calibration range of the instrument.
- D** Indicates an identified compound in an analysis has been diluted. This flag alerts the data user to any differences between the concentrations reported in the two analysis.
- A** Indicates tentatively identified compounds that are suspected to be aldol condensation products.
- G** Indicates the TCLP Matrix Spike Recovery was greater than the upper limit of the analytical method.
- L** Indicates the TCLP Matrix Spike Recovery was less than the lower limit of the analytical method.
- T** Indicates the analyte is found in the associated TCLP extraction blank as well as in the sample.

**X,Y,Z** are reserved for laboratory defined flags.



United States Environmental Protection Agency  
Contract Laboratory Program

**Organic Traffic Report  
& Chain of Custody Record**  
(For Organic CLP Analysis)

Case No.

27876

|  |  |   |                          |  |                     |   |                             |
|--|--|---|--------------------------|--|---------------------|---|-----------------------------|
| 1. Matrix (Enter in Column A)<br><br>1. Surface Water<br>2. Ground Water<br>3. Leachate<br>4. Field QC<br>5. Soil/Sediment<br>6. Oil (High only)<br>7. Waste (High only)<br>8. Other (Specify in Column A) | 2. Preservative (Enter in Column D)<br><br>1. HCl<br>2. HNO3<br>3. NaHSO4<br>4. H2SO4<br>5. Ice only<br>6. Other (Specify in Column D)<br>N. Not preserved | 2. Region No.<br>5  | 3. Sampling Co.<br>USEPA | 4. Date Shipped<br>3/16/00   | Carrier<br>Fed. Ex. | 6. Date Received -- Received by:<br>3/17/00 [Signature]   |                             |
|  |  | 3. Sampler (Name)<br>Doug Yeskris   |                          | 4. Airbill Number<br>7193634545  |                     | 7. Laboratory Contract Number<br>[Blank]  |                             |
|  |  | 3. Sampler Signature<br>[Signature]   |                          | 5. Ship To<br>Enviro Systems, Inc.<br>9200 Rumsey Rd. Suite B102<br>Columbia, MD 21045<br>ATTN: Sample Custodian   |                     | 7. Transfer to:<br>[Blank]  | 8. Date Received<br>[Blank] |
|  |  | 3. Purpose<br><input checked="" type="checkbox"/> SF<br><input type="checkbox"/> PRP<br><input type="checkbox"/> ST<br><input type="checkbox"/> FED |                          | <input type="checkbox"/> CLEM<br><input type="checkbox"/> PA<br><input type="checkbox"/> REM<br><input type="checkbox"/> RI<br><input type="checkbox"/> SI<br><input type="checkbox"/> ESI |                     | <input checked="" type="checkbox"/> FS<br><input type="checkbox"/> RD<br><input type="checkbox"/> RA<br><input type="checkbox"/> O&M<br><input type="checkbox"/> NPLD |                             |

| CLP Sample Numbers (from labels) | A Matrix (from Box 1)<br>Other: Res. Cont. | B Conc. Low Med High | C Sample Type: Comp. Grab | D Preservative (from Box 2)<br>Other: | E RAS Analysis |     |         |           |         | F Regional Specific Tracking Number or Tag Numbers | G Station Location Identifier | H Mo/Day/Year/Time Sample Collection | I Corresponding CLP Inorganic Sample No. | K High Phases |                     |                   |
|----------------------------------|--|----------------------|---------------------------|---------------------------------------|----------------|-----|---------|-----------|---------|--|-------------------------------|--------------------------------------|--|---------------|---------------------|-------------------|
|                                  |  |                      |                           |                                       | VOA            | BNA | Pos/PCB | High only | ARO/TOX |  |                               |                                      |  | Soil/Gems     | Water-Miscible Liq. | Water-Immns. Liq. |
| EDCK9                            | 2  | L                    | G                         | 1                                     | X              |     |         |           |         | 5-082817/19  | B-1                           | 3/15/00 1401                         | n/a                                      |               |                     |                   |
|                                  | 2  |                      |                           | 5                                     | X              |     |         |           |         | 5-082820/21  |                               |                                      |  |               |                     |                   |
| EDCK0                            | 2  |                      |                           | 1                                     | X              |     |         |           |         | 5-082822/24  | B-3                           | 1555                                 |  |               |                     |                   |
|                                  | 2  |                      |                           | 5                                     | X              |     |         |           |         | 5-082825/26  |                               |                                      |  |               |                     |                   |
| EDCK1                            | 8  |                      |                           | 1                                     | X              |     |         |           |         | 5-082827/29  | 54253 Westwood                | 1615                                 |  |               |                     |                   |
|                                  | 8  |                      |                           | 5                                     | X              |     |         |           |         | 5-082830/31  |                               |                                      |  |               |                     |                   |
| EDCK0                            | 8  |                      |                           | 1                                     | X              |     |         |           |         | 5-082832/34  | 54271 Westwood                | 1635                                 |  |               |                     |                   |
| EDCK6                            | 8  |                      |                           | 1                                     | X              |     |         |           |         | 5-082837/39  | 54215 Westwood                | 1545                                 |  |               |                     |                   |
| EDCK1                            | 4  |                      |                           | 1                                     | X              |     |         |           |         | 5-082842/44  | TB1                           | 0730                                 |  |               |                     |                   |
| EDCK5                            | 8  | ✓                    | ✓                         | 1                                     | X              |     |         |           |         | 5-082849/51  | 27864 Westwood                | 1710                                 |  |               |                     |                   |

Shipment for Case Complete? (Y/N) **N**

Page **1** of **2**

Sample(s) to be Used for Laboratory QC

Additional Sampler Signatures

Chain of Custody Seal Number(s)  
**152004 & 152003**

**CHAIN OF CUSTODY RECORD**

|  |                             |  |                              |                      |   |
|--|-----------------------------|--|------------------------------|----------------------|---|
| Relinquished by: (Signature)<br>Doug Yeskris | Date / Time<br>3/16/00 1107 | Received by: (Signature)                               | Relinquished by: (Signature) | Date / Time          | Received by: (Signature)                |
| Relinquished by: (Signature)                 | Date / Time                 | Received by: (Signature)                               | Relinquished by: (Signature) | Date / Time          | Received by: (Signature)                |
| Relinquished by: (Signature)                 | Date / Time                 | Received for Laboratory by: (Signature)<br>[Signature] | Date / Time<br>3/17/00 1100  | Remarks<br>SDG EDCJ8 | Is custody seal intact? <b>Y/N/none</b> |

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Low - Lab Copy for Return  
CLASS

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37 109



United States Environmental Protection Agency  
Contract Laboratory Program

### Organic Traffic Report & Chain of Custody Record (For Organic CLP Analysis)

Case No.

27876

|  |  |  |                              |  |  |                                    |
|--|--|--|------------------------------|--|--|------------------------------------|
| <b>1. Matrix</b><br>(Enter in Column A)<br><br>1. Surface Water<br>2. Ground Water<br>3. Leachate<br>4. Field QC<br>5. Soil/Sediment<br>6. Oil (High only)<br>7. Waste (High only)<br>8. Other (Specify in Column A) | <b>2. Preservative</b><br>(Enter in Column D)<br><br>1. HCl<br>2. HNO3<br>3. NaHSO4<br>4. H2SO4<br>5. Ice only<br>6. Other (Specify in Column D)<br>N. Not preserved | <b>2. Region No.</b><br>5  | <b>Sampling Co.</b><br>USEPA | <b>4. Date Shipped</b><br>3/16/00  | <b>Carrier</b><br>Fed. Ex.   |                                    |
|  |  | <b>3. Purposes</b><br><input type="checkbox"/> Early Action<br><input type="checkbox"/> Long-Term Action   |                              | <b>5. Ship To</b><br>Enviro Systems, Inc.<br>9200 Runsey Rd. Suite B107<br>Columbia, MD 21045<br>ATTN: Sample Custodian  | <b>6. Date Received</b><br>3/17/00   |                                    |
|  |  | <input checked="" type="checkbox"/> SF<br><input type="checkbox"/> PRP<br><input type="checkbox"/> ST<br><input type="checkbox"/> FED                |                              | <input type="checkbox"/> CLEM<br><input type="checkbox"/> PA<br><input type="checkbox"/> REM<br><input type="checkbox"/> RI<br><input type="checkbox"/> SI<br><input type="checkbox"/> ESI | <input type="checkbox"/> FS<br><input checked="" type="checkbox"/> RD<br><input type="checkbox"/> RA<br><input type="checkbox"/> O&M<br><input type="checkbox"/> INPLD | <b>Received by:</b><br>[Signature] |
|  |  | <b>Lead</b><br><input checked="" type="checkbox"/> SF<br><input type="checkbox"/> PRP<br><input type="checkbox"/> ST<br><input type="checkbox"/> FED |                              | <b>Airbill Number</b><br>7193634545  |  | <b>Received by:</b><br>[Signature] |

|  |                                    |
|--|------------------------------------|
| <b>6. Date Received</b><br>3/17/00           | <b>Received by:</b><br>[Signature] |
| <b>Laboratory Contract Number</b><br>[Blank] | <b>Unit Price</b><br>[Blank]       |
| <b>Received by:</b><br>[Signature]           | <b>Date Received</b><br>[Blank]    |
| <b>Contract Number</b><br>[Blank]            | <b>Price</b><br>[Blank]            |

| CLP Sample Numbers (from labels) | A Matrix (from Box 1) | B Conc.: Low Med High | C Sample Type: Comp. Grab | D Preservative (from Box 2) | E RAS Analysis |     |         |                   | F Regional Specific Tracking Number or Tag Numbers | G Station Location Identifier | H Mo/Day/Year/Time Sample Collection | I Corresponding CLP Inorganic Sample No. | J Sampler Initials | K High Phases |       |               |           |
|----------------------------------|-----------------------|-----------------------|---------------------------|-----------------------------|----------------|-----|---------|-------------------|--|-------------------------------|--------------------------------------|--|--------------------|---------------|-------|---------------|-----------|
|                                  |                       |                       |                           |                             | VOA            | BNA | PAH/PCB | High only ARO/TOX |  |                               |                                      |  |                    | Solids        | Water | Miscible Liq. | Imm. Liq. |
| EDCK2                            | 8                     | L                     | G                         | 1                           | X              |     |         |                   | 5-082854/56  | 27948 West                    | 3/15/00 1730                         | n/a                                      | [Signature]        |               |       |               |           |
| EDCK4                            | 8                     | L                     | G                         | 1                           | X              |     |         |                   | 5-082861/63  | 27919 West                    | 1800                                 |  | [Signature]        |               |       |               |           |
| EDCK3                            | 1                     |                       |                           |                             | X              |     |         |                   | 5-082866/68  | 54280 West                    | 1815                                 |  | [Signature]        |               |       |               |           |
| EDCK6                            | 1                     |                       |                           |                             | X              |     |         |                   | 5-082871/73  | 54231 West                    | 1840                                 |  | [Signature]        |               |       |               |           |
| EDCK2                            | 2                     |                       |                           |                             | X              |     |         |                   | 5-082876/78  | G-1                           | 3/14/00 1710                         |  | [Signature]        |               |       |               |           |
| EDCK3                            | 2                     |                       |                           |                             | X              |     |         |                   | 5-082879/81  | G-3                           | 1854                                 |  | [Signature]        |               |       |               |           |

|   |                       |  |   |  |
|---|-----------------------|--|---|--|
| <b>Shipment for Case Complete?</b> (Y/N)<br>N | <b>Page</b><br>2 of 2 | <b>Sample(s) to be Used for Laboratory QC</b><br>[Blank] | <b>Additional Sampler Signatures</b><br>[Blank] | <b>Chain of Custody Seal Number(s)</b><br>152 003 + 152004 |
|---|-----------------------|--|---|--|

Cooler # 1

#### CHAIN OF CUSTODY RECORD

|  |                                    |   |  |                               |  |
|--|------------------------------------|---|--|-------------------------------|--|
| <b>Relinquished by: (Signature)</b><br>Doug Yeskis | <b>Date / Time</b><br>3/16/00 1107 | <b>Received by: (Signature)</b><br>[Blank]                    | <b>Relinquished by: (Signature)</b><br>[Blank] | <b>Date / Time</b><br>[Blank] | <b>Received by: (Signature)</b><br>[Blank]   |
| <b>Relinquished by: (Signature)</b><br>[Blank]     | <b>Date / Time</b><br>[Blank]      | <b>Received by: (Signature)</b><br>[Blank]                    | <b>Relinquished by: (Signature)</b><br>[Blank] | <b>Date / Time</b><br>[Blank] | <b>Received by: (Signature)</b><br>[Blank]   |
| <b>Relinquished by: (Signature)</b><br>[Blank]     | <b>Date / Time</b><br>[Blank]      | <b>Received for Laboratory by: (Signature)</b><br>[Signature] | <b>Date / Time</b><br>3/17/00 1100             | <b>Remarks</b><br>SDG EDCJ8   | <b>Is custody seal intact?</b> Y/N/none<br>Y |

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Pink - CLASS Copy  
Yellow - Lab Copy for Return to CLASS

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(2/98)

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SEE REVERSE FOR PURPOSE CODE DEFINITIONS

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A21-012-16 REV. 05-97 0703 & U \*



United States Environmental Protection Agency  
Contract Laboratory Program

**Organic Traffic Report  
& Chain of Custody Record**  
(For Organic CLP Analysis)

Case No.

27876

|  |  |  |                    |   |                               |  |
|--|--|--|--------------------|---|-------------------------------|--|
| 1. Matrix (Enter in Column A)<br><br>1. Surface Water<br>2. Ground Water<br>3. Leachate<br>4. Field QC<br>5. Soil/Sediment<br>6. Oil (High only)<br>7. Waste (High only)<br>8. Other (Specify in Column A) | 2. Preservative (Enter in Column D)<br><br>1. HCl<br>2. HNO3<br>3. NaHSO4<br>4. H2SO4<br>5. Ice only<br>6. Other (Specify in Column D)<br>N. Not preserved | 2. Region No. 5  | Sampling Co. USEPA | 4. Date Shipped 3/16/00   | Carrier Fed. Ex.              | 6. Date Received -- Received by: [Signature] |
|  |  | 3. Sampler (Name) Doug Yeskis  |                    | Airfill Number 7193634545   | 7. Laboratory Contract Number | Unit Price                                   |
|  |  | 3. Purpose: <input checked="" type="checkbox"/> SF <input type="checkbox"/> PRP <input type="checkbox"/> ST <input type="checkbox"/> FED |                    | 5. Ship To Enviro Systems, Inc. 9200 Ramsey Rd., Suite B102 Columbia, MD 21045 ATTN: Sample Custodian | 7. Date Received              | Price  |

| CLP Sample Numbers (from labels) | A Matrix (from Box 1)<br>Other: [Signature] | B Conc. Low Med High | C Sample Type: Comp. Grab | D Preservative (from Box 2)<br>Other: | E RAS Analysis |     |          |                   | F Regional Specific Tracking Number or Tag Numbers | G Station Location Identifier | H Mo/Day/Year/Time Sample Collection | I Corresponding CLP Inorganic Sample No. | J Sampler Initials | K High Phases |       |               |
|----------------------------------|---|----------------------|---------------------------|---------------------------------------|----------------|-----|----------|-------------------|--|-------------------------------|--------------------------------------|--|--------------------|---------------|-------|---------------|
|                                  |   |                      |                           |                                       | VOA            | BNA | Pres/POB | High only ARO/TOX |  |                               |                                      |  |                    | Sediment      | Water | Miscible Liq. |
| EDCK3                            | 8   | L                    | G                         | 5                                     | X              |     |          |                   | 5-082874/75  | 54231 (westwood)              | 3/15/00 1840                         | N/A                                      | [Signature]        |               |       |               |
| EDCK3                            |   |                      |                           |                                       | X              |     |          |                   | 5-082869/70  | 54230 "                       | 1815                                 |  | [Signature]        |               |       |               |
| EDCK4                            |   |                      |                           |                                       | X              |     |          |                   | 5-082865/64  | 27919 "                       | 1800                                 |  | [Signature]        |               |       |               |
| EDCK2                            |   |                      |                           |                                       | X              |     |          |                   | 5-082859/60  | 27948 "                       | 1730                                 |  | [Signature]        |               |       |               |
| EDCK5                            |   |                      |                           |                                       | X              |     |          |                   | 5-082852/53  | 27964 "                       | 1710                                 |  | [Signature]        |               |       |               |
| EDCK6                            |   |                      |                           |                                       | X              |     |          |                   | 5-082847/48  | 54215 "                       | 1545                                 |  | [Signature]        |               |       |               |
| EDCKD                            |   |                      |                           |                                       | X              |     |          |                   | 5-082835/36  | 54271 "                       | 1635                                 |  | [Signature]        |               |       |               |

|  |                           |  |                               |  |
|--|---------------------------|--|-------------------------------|--|
| Shipment for Case Complete? (Y/N) <u>N</u> | Page <u>1</u> of <u>1</u> | Sample(s) to be Used for Laboratory QC | Additional Sampler Signatures | Chain of Custody Seal Number(s) <u>152001 + 152002</u> |
|--|---------------------------|--|-------------------------------|--|

**CHAIN OF CUSTODY RECORD**

|   |                                  |  |                                  |                           |  |
|---|----------------------------------|--|----------------------------------|---------------------------|--|
| Relinquished by: (Signature) <u>Doug Yeskis</u> | Date / Time <u>3/16/00 10:55</u> | Received by: (Signature)                                   | Relinquished by: (Signature)     | Date / Time               | Received by: (Signature)                 |
| Relinquished by: (Signature)                    | Date / Time                      | Received by: (Signature)                                   | Relinquished by: (Signature)     | Date / Time               | Received by: (Signature)                 |
| Relinquished by: (Signature)                    | Date / Time                      | Received for Laboratory by: (Signature) <u>[Signature]</u> | Date / Time <u>3/17/00 11:00</u> | Remarks <u>SDG EDC J3</u> | Is custody seal intact? <u>(Y)N</u> None |

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United States Environmental Protection Agency  
Contract Laboratory Program

**Organic Traffic Report  
& Chain of Custody Record**  
(For Organic CLP Analysis)

Case No.

27876

|  |  |  |   |   |
|--|--|--|---|---|
| 1. Matrix (Enter in Column A)<br><br>1. Surface Water<br>2. Ground Water<br>3. Leachate<br>4. Field QC<br>5. Soil/Sediment<br>6. Oil (High only)<br>7. Waste (High only)<br>8. Other (Specify in Column A) | 2. Preservative (Enter in Column D)<br><br>1. HCl<br>2. HNO3<br>3. NaHSO4<br>4. H2SO4<br>5. Ice only<br>6. Other (Specify in Column D)<br>N. Not preserved | 2. Region No. <u>5</u> Sampling Co. <u>USEPA</u> | 4. Date Shipped <u>3/17/00</u> Carrier <u>Fed. Ex</u>   | 6. Date Received <u>3/16/00</u> Received by: <u>[Signature]</u>   |
|  |  | Sampler (Name) <u>Doug Yaskis</u>                | Airbill Number <u>719 360 1590</u>  | Laboratory Contract Number <u>EDCJ8</u> Unit Price <u>[blank]</u> |
|  |  | 3. Purpose <u>Lead</u>                           | 5. Ship To <u>Enviro Systems, Inc.</u><br><u>9200 Rumsey Rd. Suite B102</u><br><u>Columbia, MD 21045</u><br>ATTN: <u>Sample Custodian</u> | Transfer to: <u>[blank]</u> Date Received <u>[blank]</u>          |

|   |  |   |
|---|--|---|
| <input checked="" type="checkbox"/> SF<br><input type="checkbox"/> PRP<br><input type="checkbox"/> ST<br><input type="checkbox"/> FED | <input type="checkbox"/> CLEM<br><input type="checkbox"/> PA<br><input type="checkbox"/> REM<br><input type="checkbox"/> RI<br><input type="checkbox"/> SI<br><input type="checkbox"/> ESI | <input type="checkbox"/> FS<br><input type="checkbox"/> RD<br><input checked="" type="checkbox"/> RA<br><input type="checkbox"/> O&M<br><input type="checkbox"/> NPLD |
|---|--|---|

| CLP Sample Numbers (from labels) | A Matrix (from Box 1)<br>Other | B Conc. Low Med High | C Sample Type: Comp. Grab | D Preservative (from Box 2)<br>Other | E RAS Analysis |     |          | F Regional Specific Tracking Number or Tag Numbers | G Station Location Identifier | H Mo/Day/Year/Time Sample Collection | I Corresponding CLP Inorganic Sample No. | J Sampler Initials | K High Phases |       |              |
|----------------------------------|--------------------------------|----------------------|---------------------------|--------------------------------------|----------------|-----|----------|--|-------------------------------|--------------------------------------|--|--------------------|---------------|-------|--------------|
|                                  |                                |                      |                           |                                      | VOA            | BNA | Pest/PCB |  |                               |                                      |  |                    | High only     | Water | Miscible Lq. | Immisc. Lq. |
| EDCM2                            | 2                              | L                    | G                         | 1                                    | X              |     |          | 5-082956/58  | J-3                           | 3/16/00 1520                         | N/A                                      | [Signature]        |               |       |              |
| EDCM3                            | 4                              | L                    | G                         | 1                                    | X              |     |          | 5-082959/61  | TR32                          | 3/17/00 825                          | N/A                                      | [Signature]        |               |       |              |
|                                  |                                |                      |                           |                                      |                |     |          |  |                               |                                      |  |                    |               |       |              |
|                                  |                                |                      |                           |                                      |                |     |          |  |                               |                                      |  |                    |               |       |              |
|                                  |                                |                      |                           |                                      |                |     |          |  |                               |                                      |  |                    |               |       |              |
|                                  |                                |                      |                           |                                      |                |     |          |  |                               |                                      |  |                    |               |       |              |
|                                  |                                |                      |                           |                                      |                |     |          |  |                               |                                      |  |                    |               |       |              |
|                                  |                                |                      |                           |                                      |                |     |          |  |                               |                                      |  |                    |               |       |              |
|                                  |                                |                      |                           |                                      |                |     |          |  |                               |                                      |  |                    |               |       |              |

|  |                           |  |  |  |
|--|---------------------------|--|--|--|
| Shipment for Case Complete? (Y/N) <u>Y</u> | Page <u>2</u> of <u>2</u> | Sample(s) to be Used for Laboratory QC <u>EDCM 8</u> | Additional Sampler Signatures <u>[Signature]</u> | Chain of Custody Seal Number(s) <u>152068 + 152069</u> |
|--|---------------------------|--|--|--|

Cooler #1

**CHAIN OF CUSTODY RECORD**

|   |                                 |  |                                 |                                       |  |
|---|---------------------------------|--|---------------------------------|---------------------------------------|--|
| Relinquished by: (Signature) <u>Doug Yaskis</u> | Date / Time <u>3/17/00 1922</u> | Received by: (Signature) <u>[Signature]</u>                | Relinquished by: (Signature)    | Date / Time                           | Received by: (Signature)               |
| Relinquished by: (Signature)                    | Date / Time                     | Received by: (Signature)                                   | Relinquished by: (Signature)    | Date / Time                           | Received by: (Signature)               |
| Relinquished by: (Signature)                    | Date / Time                     | Received for Laboratory by: (Signature) <u>[Signature]</u> | Date / Time <u>3/16/00 1015</u> | Remarks <u>SDG EDCJ8 final sample</u> | Is custody seal intact <u>Y/N/none</u> |

276126



# Organic Traffic Report & Chain of Custody Record (For Organic CLP Analysis)

Case No. **77876**

Date Received -- Received by: **3/16/00** *[Signature]*

Laboratory Contract Number: **15206709**

Received by: **SDG**

Contract Number: **152099**

Price: **1147**

1. Matrix (Enter in Column A)  
 1. Surface Water  
 2. Ground Water  
 3. Leachate  
 4. Field QC  
 5. Soil/Sediment  
 6. Oil (High only)  
 7. Waste (High only)  
 8. Other (Specify in Column A)

2. Preservative (Enter in Column D)  
 1. HCl  
 2. HNO3  
 3. NaHSO4  
 4. H2SO4  
 5. Ice only  
 6. Other (Specify in Column D)  
 N. Not preserved

2. Region No. **5** Sampling Co. **USEPA**

4. Date Shipped **3/17/00** Carrier **Fed. Ex**

3. Sampler (Name) **Doug Yeskis**

3. Sampler Signature **Doug Yeskis**

3. Purpose:  SF  PRP  ST  FED

Lead Action:  CLEM  PA  REM  RI  SI  ESI

Long-Term Action:  FS  RD  RA  O&M  NPLD

4. Airbl Number **7193601590**

5. Ship To: **Enviro Systems, Inc  
9200 Rumsey Rd, Suite B102  
Columbia, MD 21045  
ATTN: Sample Custodian**

| CLP Sample Numbers (from labels) | A Matrix (from Box 1)<br>Other: <i>Soil</i> | B Conc.: Low Med High | C Sample Type: Comp. Grab | D Preservative (from Box 2)<br>Other: | E RAS Analysis                      |     |         | F Regional Specific Tracking Number or Tag Numbers | G Station Location Identifier | H Mo/Day/Year/Time Sample Collection | I Corresponding CLP Inorganic Sample No. | J Sampler Initials |            |       | K High Phases |       |          |
|----------------------------------|---|-----------------------|---------------------------|---------------------------------------|-------------------------------------|-----|---------|--|-------------------------------|--------------------------------------|--|--------------------|------------|-------|---------------|-------|----------|
|                                  |   |                       |                           |                                       | VOA                                 | BNA | PAH/POB |  |                               |                                      |  | High only ARO/TOX  | Soil/Gases | Water | Water         | Water | Initials |
| <b>EDCJ8</b>                     | <b>8</b>                                    | <b>L</b>              | <b>G</b>                  | <b>5</b>                              | <input checked="" type="checkbox"/> |     |         | <b>5-082937/42</b>                                 | <b>54305 Westwood</b>         | <b>3/16/00 1125</b>                  | <b>N/A</b>                               | <b>SDG</b>         |            |       |               |       |          |
| <b>EDL40</b>                     | <b>8</b>                                    | <b>L</b>              | <b>G</b>                  | <b>5</b>                              | <input checked="" type="checkbox"/> |     |         | <b>5-082951/52</b>                                 | <b>E-3 Westwood</b>           | <b>3/16/00 1147</b>                  | <b>N/A</b>                               | <b>SDG</b>         |            |       |               |       |          |

Shipment for Case Complete? (Y/N) **(Y)**

Page **1** of **1**

Sample(s) to be Used for Laboratory QC **EDCJ8**

Additional Sampler Signatures

Chain of Custody Seal Number(s) **15206709 152099**

### CHAIN OF CUSTODY RECORD

|   |                                  |  |                                 |                          |   |
|---|----------------------------------|--|---------------------------------|--------------------------|---|
| Relinquished by: (Signature) <b>Doug Yeskis</b> | Date / Time <b>3/17/00 19:30</b> | Received by: (Signature)                                   | Relinquished by: (Signature)    | Date / Time              | Received by: (Signature)                  |
| Relinquished by: (Signature)                    | Date / Time                      | Received by: (Signature)                                   | Relinquished by: (Signature)    | Date / Time              | Received by: (Signature)                  |
| Relinquished by: (Signature)                    | Date / Time                      | Received for Laboratory by: (Signature) <b>[Signature]</b> | Date / Time <b>3/16/00 1115</b> | Remarks <b>SDG EDCJ8</b> | Is custody seal intact? <b>(Y) / None</b> |

379713



United States Environmental Protection Agency  
Contract Laboratory Program

**Organic Traffic Report  
& Chain of Custody Record**  
(For Organic CLP Analysis)

Case No.

27876

|  |  |                                      |                           |                                  |                         |   |
|--|--|--------------------------------------|---------------------------|----------------------------------|-------------------------|---|
| 1. Matrix (Enter in Column A)<br>1. Surface Water<br>2. Ground Water<br>3. Leachate<br>4. Field QC<br>5. Soil/Sediment<br>6. Oil (High only)<br>7. Waste (High only)<br>8. Other (Specify in Column A) | 2. Preservative (Enter in Column D)<br>1. HCl<br>2. HNO3<br>3. NaHSO4<br>4. H2SO4<br>5. Ice only<br>6. Other (Specify in Column D)<br>N. Not preserved | 2. Region No. <b>5</b>               | Sampling Co. <b>USEPA</b> | 4. Date Shipped <b>3/17/00</b>   | Carrier <b>Fed. Ex.</b> | 6. Date Received -- Received by:<br><b>3/16/00</b> <i>[Signature]</i><br>Laboratory Contract Number <b>111511</b><br>Order to: <b>Enviro Systems, Inc.</b><br><b>9200 Rumsey Rd, Suite B10</b><br><b>Columbia, MD 21045</b><br>Received by:<br>Contract Number _____ Price _____<br>ATTN: <i>Sample Custodian</i> |
|  |  | Sampler (Name) <b>Doug Yeskis</b>    |                           | Airbill Number <b>7193601590</b> |                         |   |
|  |  | Sampler Signature <i>Doug Yeskis</i> |                           | 5. Ship To                       |                         |   |

| CLP Sample Numbers (from labels) | A Matrix (from Box 1)<br><i>Other Res W/16</i> | B Conc. Low Med High | C Sample Type: Comp. Grab | D Preservative (from Box 2)<br><i>Other:</i> | E RAS Analysis |     |                   | F Regional Specific Tracking Number or Tag Numbers | G Station Location Identifier | H Mo/Day/Year/Time Sample Collection | I Corresponding CLP Inorganic Sample No. | J Sampler Initials | K High Phases |       |       |
|----------------------------------|--|----------------------|---------------------------|--|----------------|-----|-------------------|--|-------------------------------|--------------------------------------|--|--------------------|---------------|-------|-------|
|                                  |  |                      |                           |  | VOA            | BNA | High only ARO/TOX |  |                               |                                      |  |                    | Soil          | Water | Waste |
| EDCJ5                            | 8  | L                    | G                         | 1  | X              |     |                   | 5-082916/18  | T                             | 3/16/00 1040                         | N/A                                      | <i>[Signature]</i> |               |       |       |
| EDCJ7                            | 8  | L                    | G                         | 1  | X              |     |                   | 5-082919/20  | 54287 (washed)                | 3/16/00 1045                         | N/A                                      | <i>[Signature]</i> |               |       |       |
| EDCK8                            | 8  | L                    | G                         | 1  | X              |     |                   | 5-082923/25  | 54287 (washed)                | 3/16/00 1125                         | N/A                                      | <i>[Signature]</i> |               |       |       |
|                                  |  |                      |                           | 5  | X              |     |                   | 5-082926/27  |                               |                                      |  |                    |               |       |       |
|                                  |  |                      |                           | 5  | X              |     |                   | 5-082928/36  | 54305 (washed)                | 3/16/00 1200                         | N/A                                      | <i>[Signature]</i> |               |       |       |
|                                  |  |                      |                           | 5  | X              |     |                   | 5-082937/42  |                               |                                      |  |                    |               |       |       |
| EDCJ4                            | 8  | L                    | G                         | 1  | X              |     |                   | 5-082943/45  | 54125 (washed)                | 3/16/00 1200                         | N/A                                      | <i>[Signature]</i> |               |       |       |
|                                  |  |                      |                           | 5  | X              |     |                   | 5-082946/47  |                               |                                      |  |                    |               |       |       |
| EDCL4                            | 2  | L                    | G                         | 1  | X              |     |                   | 5-082948/50  | E-3                           | 3/16/00 1647                         | N/A                                      | <i>[Signature]</i> |               |       |       |
| EDCM1                            | 2  | L                    | G                         | 1  | X              |     |                   | 5-082953/55  | J-1                           | 3/16/00 1647                         | N/A                                      | <i>[Signature]</i> |               |       |       |

|  |                           |  |                               |  |
|--|---------------------------|--|-------------------------------|--|
| Shipment for Case Complete? (Y/N) <b>(Y)</b> | Page <b>1</b> of <b>2</b> | Sample(s) to be Used for Laboratory QC <b>EDCK 8</b> | Additional Sampler Signatures | Chain of Custody Seal Number(s) <b>152068 &amp; 152069</b> |
|--|---------------------------|--|-------------------------------|--|

**CHAIN OF CUSTODY RECORD**

|   |                                 |  |                                 |                          |   |
|---|---------------------------------|--|---------------------------------|--------------------------|---|
| Relinquished by: (Signature) <i>Doug Yeskis</i> | Date / Time <b>3/17/00 1922</b> | Received by: (Signature)                                   | Relinquished by: (Signature)    | Date / Time              | Received by: (Signature)                  |
| Relinquished by: (Signature)                    | Date / Time                     | Received by: (Signature)                                   | Relinquished by: (Signature)    | Date / Time              | Received by: (Signature)                  |
| Relinquished by: (Signature)                    | Date / Time                     | Received for Laboratory by: (Signature) <i>[Signature]</i> | Date / Time <b>3/16/00 1015</b> | Remarks <b>SDG EDCJ8</b> | Is custody seal intact? <b>(Y/N) None</b> |

DISTRIBUTION: Blue - Region Copy    Pink - CLASS Copy    EPA Form 8110-2 (2/98)    SEE REVERSE FOR ADDITIONAL STANDARD INSTRUCTIONS  
 White - Lab Copy for Return to Region    Ye\* - Lab Copy for Return to CLASS    \*SEE REVERSE FOR PURPOSE CODE DEFINITION

375.12

A21-012-10 REV. 08/97 ORD 810

SDG NARRATIVE

LABORATORY NAME: ENVIROSYSTEMS, INC.

APR 3 2000

CASE #: 27876 SDG #: EDCJ8 REGION: V

CONTRACT: 68-D7-0005

DATES SAMPLES RECEIVED AT LABORATORY: 17 - 18 MARCH 2000

SAMPLE ANALYSES INCLUDED IN THIS REPORT:

| EPA SAMPLE # | LAB ID # | ANALYSIS | VOA pH |
|--------------|----------|----------|--------|
| EDCJ8        | 00030902 | VOA, BNA | 2      |
| EDCK0        | 00030903 | VOA, BNA | 2      |
| EDCK1        | 00030904 | VOA, BNA | 2      |
| EDCK2        | 00030905 | VOA, BNA | 2      |
| EDCK3        | 00030906 | VOA, BNA | 2      |
| EDCK4        | 00030907 | VOA, BNA | 2      |
| EDCK5        | 00030908 | VOA, BNA | 2      |
| EDCK6        | 00030909 | VOA, BNA | 2      |
| EDCK9        | 00030910 | VOA, BNA | 2      |
| EDCL0        | 00030911 | VOA, BNA | 2      |
| EDCL1        | 00030912 | VOA      | 2      |
| EDCL2        | 00030913 | VOA      | 2      |
| EDCL3        | 00030914 | VOA      | 2      |
| EDCJ4        | 00030920 | VOA, BNA | 2      |
| EDCJ5        | 00030921 | VOA, BNA | 2      |
| EDCJ9        | 00030922 | VOA, BNA | 2      |
| EDCK8        | 00030923 | VOA, BNA | 2      |
| EDCL4        | 00030924 | VOA, BNA | 2      |
| EDCM1        | 00030925 | VOA      | 2      |
| EDCM2        | 00030926 | VOA      | 2      |

Samples for this contract are analyzed by EPA SDW DL002.1 for low concentration water.

All instances where GC/MS manual integration was necessary are initialled and dated by the analyst.

The volatile analysis was performed using a Restek 105 meter RTX-502.2 column with an inner diameter of 0.53 mm and a 3 micron film thickness.

The trap used with the autosampler is a 30 cm Supelco, Inc K Trap (VOCARB 3000) packed with Carboxen B/Carboxen 1000 & 1001.

All GC criteria was met for all sample in this SDG.

Each of the twelve lab control sample compound recoveries was within the GC limits.

SEMI-VOLATILES SECTION

The semi-volatile analysis was performed using a HP-5MS 30 meter column with an inner diameter of 0.25 mm and a 0.25 micron film thickness.

All samples were extracted within holding time on 3/22/00 however eight of the samples were lost because the condenser cooling water was not turned on. The eight samples were reextracted on 3/23/00 and samples EDCK5, EDCK6, EDCK9 and EDCK10 were outside of the five day holding time.

Butylbenzylphthalate is present below the detection limit in method blank SBLK76. The compound is present in several of the samples and may be a result of laboratory contamination.

All other QC criteria was met for all samples in this SDG.

Each of the fourteen lab control sample compound recoveries was within the QC limits.

I CERTIFY THAT THIS DATA PACKAGE IS IN COMPLIANCE WITH THE TERMS AND CONDITIONS OF THE CONTRACT, BOTH TECHNICALLY AND FOR COMPLETENESS, FOR OTHER THAN THE CONDITIONS DETAILED ABOVE. RELEASE OF THE DATA CONTAINED IN THIS HARDCOPY DATA PACKAGE HAS BEEN AUTHORIZED BY THE LABORATORY MANAGER OR HIS DESIGNEE, AS VERIFIED BY THE FOLLOWING SIGNATURE:

  
\_\_\_\_\_  
William Brewington  
Organics Section Manager

DATE: 3/30/00  
30 March 2000

ZLCA  
 LOW CONC WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Job Name: ENVIROSYSTEMS                      Contract: 68-D7-0005  
 Job Code: ENVSYS                      Case No: 27876                      SAS No.                      SDG No.: EDCJ8

|            | EPA      | BFB | OTHER | TOT |
|------------|----------|-----|-------|-----|
| SAMPLE NO. | %REC     | #   |       | OUT |
| 01         | EDCJ4    | 100 | 0     | 0   |
| 02         | EDCJ5    | 91  | 0     | 0   |
| 03         | EDCJ8    | 93  | 0     | 0   |
| 04         | EDCJ9    | 84  | 0     | 0   |
| 05         | EDCK0    | 91  | 0     | 0   |
| 06         | EDCK1    | 89  | 0     | 0   |
| 07         | EDCK2    | 92  | 0     | 0   |
| 08         | EDCK3    | 92  | 0     | 0   |
| 09         | EDCK4    | 94  | 0     | 0   |
| 10         | EDCK5    | 96  | 0     | 0   |
| 11         | EDCK6    | 89  | 0     | 0   |
| 12         | EDCK8    | 94  | 0     | 0   |
| 13         | EDCK9    | 96  | 0     | 0   |
| 14         | EDCL0    | 94  | 0     | 0   |
| 15         | EDCL1    | 96  | 0     | 0   |
| 16         | EDCL2    | 90  | 0     | 0   |
| 17         | EDCL3    | 103 | 0     | 0   |
| 18         | EDCL4    | 96  | 0     | 0   |
| 19         | EDCM1    | 99  | 0     | 0   |
| 20         | EDCM2    | 94  | 0     | 0   |
| 21         | VHBLKBH  | 94  | 0     | 0   |
| 22         | VLC SBG~ | 87  | 0     | 0   |
| 23         | VBLKBG   | 85  | 0     | 0   |
| 24         | VBLKBH   | 92  | 0     | 0   |

QC LIMITS  
 %REC  
 ( 80-120)

BFB = Bromofluorobenzene

# Column to be used to flag recovery values  
 \* Values outside of contract required QC limits  
 D Surrogate diluted out

3004

EPA SAMPLE NO

WATER VOLATILE LAB CONTROL SAMPLE RECOVERY

VLCSBG

Name ENVIROSYSTEMS

Contract 68-D7-0005

Lab Code: ENVSYS

Case No.: 27876

SAS No.:

SDG No.: EDCJB

Lab Sample ID: 0322LCSB1

LCS Lot No.

Lab File ID: 0322LCSB1

Date Analyzed: 03/22/00

Purge Volume: 25.00 (ml)

Dilution Factor: 1.0

LCS Aliquot: 10 (ul)

~~572~~ *[Signature]*

| COMPOUND                | AMOUNT ADDED (ng) | AMOUNT RECOVERED (ng) | %REC # | QC LIMITS |
|-------------------------|-------------------|-----------------------|--------|-----------|
| Vinyl chloride          | 125               | 84.1                  | 67     | 60-140    |
| 1,2-Dichloroethane      | 125               | 151                   | 121    | 60-140    |
| Carbon tetrachloride    | 125               | 124                   | 99     | 60-140    |
| 1,2-Dichloropropane     | 125               | 115                   | 92     | 60-140    |
| Trichloroethene         | 125               | 113                   | 90     | 60-140    |
| 1,1,2-Trichloroethane   | 125               | 112                   | 90     | 60-140    |
| Benzene                 | 125               | 154                   | 123    | 60-140    |
| cis-1,3-Dichloropropene | 125               | 92.2                  | 74     | 60-140    |
| Bromoform               | 125               | 130                   | 104    | 60-140    |
| Tetrachloroethene       | 125               | 106                   | 85     | 60-140    |
| 1,2-Dibromoethane       | 125               | 112                   | 89     | 60-140    |
| 1,4-Dichlorobenzene     | 125               | 110                   | 88     | 60-140    |

\* Flag to be used to flag LCS recovery with an asterisk

\* Values outside of QC limits

Recovery: 0 outside limits out of 12 total

COMMENTS: VLCSBG VOA LAB CONTROL SAMPLE 3/22/00 25ML  
F5100B 35(5)/240/10 HDF

400A  
 LOW CONC WATER VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO

VBLKBG

Lab Name ENVIROSYSTEMS

Contract 68-D7-0005

Lab Code: ENVSYS

Case No.: 27876

SAS No.:

SDG No.: EDCJ8

Lab Sample ID: 0322VWBB1

Date Analyzed: 03/22/00

Lab File ID: 0322VWBB1

Time Analyzed: 1006

Instrument ID: F5100B

GC Column: RTX-502.2 ID: 0.530 (mm) Length: 105 (m)

*542-118m*

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND LCS.

| EPA<br>SAMPLE NO. | LAB<br>SAMPLE ID | LAB<br>FILE ID | TIME<br>ANALYZED |
|-------------------|------------------|----------------|------------------|
| 01:EDCJ4          | 00030920         | 030920         | 1756             |
| 02:EDCJ5          | 00030921         | 030921         | 1830             |
| 03:EDCJ8          | 00030902         | 030902         | 1044             |
| 04:EDCJ9          | 00030922         | 030922         | 1903             |
| 05:EDCK0          | 00030903         | 030903         | 1117             |
| 06:EDCK1          | 00030904         | 030904         | 1151             |
| 07:EDCK2          | 00030905         | 030905         | 1224             |
| 08:EDCK3          | 00030906         | 030906         | 1257             |
| 09:EDCK4          | 00030907         | 030907         | 1330             |
| 10:EDCK5          | 00030908         | 030908         | 1403             |
| 11:EDCK6          | 00030909         | 030909         | 1436             |
| 12:EDCK9          | 00030910         | 030910         | 1510             |
| 13:EDCL0          | 00030911         | 030911         | 1543             |
| 14:EDCL1          | 00030912         | 030912         | 1616             |
| 15:EDCL2          | 00030913         | 030913         | 1649             |
| 16:EDCL3          | 00030914         | 030914         | 1723             |
| 17:VLC SBG        | 0322LCSB1        | 0322LCSB1      | 1936             |

COMMENTS: VBLKBG VOA LAB BLANK 3/22/00 25ML  
 F5100B 35(5)/240/10 WB

4LCA  
LOW CONC WATER VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO

VBLKBH

Lab Name: ENVIROSYSTEMS

Contract 58-07-0005

Lab Code: ENVSYS

Case No.: 27876

SAS No.:

SDG No. EDCJ8

Lab Sample ID: 0323VWBB1

Date Analyzed: 03/23/00

Lab File ID: 0323VWBB1

Time Analyzed: 1028

Instrument ID: F5100B

GC Column: RTX-502.2 ID: 0.530 (mm) Length: 105 (m)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND LCS

| EPA<br>SAMPLE NO. | LAB<br>SAMPLE ID | LAB<br>FILE ID | TIME<br>ANALYZED |
|-------------------|------------------|----------------|------------------|
| 01:EDCK8          | 00030923         | 030923         | 1111             |
| 02:EDCL4          | 00030924         | 030924         | 1144             |
| 03:EDCM1          | 00030925         | 030925         | 1218             |
| 04:EDCM2          | 00030926         | 030926         | 1251             |
| 05:VHBLKBH        | 0323VHBLKB1      | 0323VHBLKB1    | 1324             |

COMMENTS: VBLKBH VOA LAB BLANK 3/23/00 25ML  
F5100B 35(5)/240/10 WB

1LCA  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

VHBLKBH

Lab Name: ENVIROSYSTEMS                      Contract: 68-D7-0005

Lab Code: ENVSYS            Case No.: 27876            SAS No.:                      SDG No.: EDCJB

Lab Sample ID: 0323VHBLKB1                      Date Received:                      .

Lab File ID: 0323VHBLKB1                      Date Analyzed: 03/23/00

Purge Volume: 25.00 (ml)                      Dilution Factor: 1.0

GC Column: RTX-502.2 ID: 0.530 (mm) Length: 105 (m)

| CAS NO.    | COMPOUND                    | CONCENTRATION<br>(ug/L) | Q |
|------------|-----------------------------|-------------------------|---|
| 74-87-3    | Chloromethane               | 1                       | U |
| 74-83-9    | Bromomethane                | 1                       | U |
| 75-01-4    | Vinyl chloride              | 1                       | U |
| 75-00-3    | Chloroethane                | 1                       | U |
| 75-09-2    | Methylene chloride          | 2                       | U |
| 67-64-1    | Acetone                     | 5                       | U |
| 75-15-0    | Carbon disulfide            | 1                       | U |
| 75-35-4    | 1,1-Dichloroethene          | 1                       | U |
| 75-34-3    | 1,1-Dichloroethane          | 1                       | U |
| 156-59-2   | cis-1,2-Dichloroethene      | 1                       | U |
| 156-60-5   | trans-1,2-Dichloroethene    | 1                       | U |
| 67-66-3    | Chloroform                  | 1                       | U |
| 107-06-2   | 1,2-Dichloroethane          | 1                       | U |
| 78-93-3    | 2-Butanone                  | 5                       | U |
| 74-97-5    | Bromochloromethane          | 1                       | U |
| 71-55-6    | 1,1,1-Trichloroethane       | 1                       | U |
| 56-23-5    | Carbon tetrachloride        | 1                       | U |
| 75-27-4    | Bromodichloromethane        | 1                       | U |
| 79-87-5    | 1,2-Dichloropropane         | 1                       | U |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1                       | U |
| 79-01-6    | Trichloroethene             | 1                       | U |
| 124-48-1   | Dibromochloromethane        | 1                       | U |
| 79-00-5    | 1,1,2-Trichloroethane       | 1                       | U |
| 71-43-2    | Benzene                     | 1                       | U |
| 10061-02-6 | trans-1,3-Dichloropropene   | 1                       | U |
| 75-25-2    | Bromoform                   | 1                       | U |
| 108-10-1   | 4-Methyl-2-pentanone        | 5                       | U |
| 591-78-6   | 2-Hexanone                  | 5                       | U |
| 127-18-4   | Tetrachloroethene           | 1                       | U |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 1                       | U |
| 106-93-4   | 1,2-Dibromoethane           | 1                       | U |
| 108-88-3   | Toluene                     | 1                       | U |
| 108-90-7   | Chlorobenzene               | 1                       | U |
| 100-41-4   | Ethylbenzene                | 1                       | U |
| 100-42-5   | Styrene                     | 1                       | U |
| 1330-20-7  | Xylenes (total)             | 1                       | U |
| 541-73-1   | 1,3-Dichlorobenzene         | 1                       | U |
| 106-46-7   | 1,4-Dichlorobenzene         | 1                       | U |
| 95-50-1    | 1,2-Dichlorobenzene         | 1                       | U |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | 1                       | U |
| 120-82-1   | 1,2,4-Trichlorobenzene      | 1                       | U |

*5423/10m*

TLCA  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBKKBG

Lab Name: ENVIROSYSTEMS

Contract: 68-D7-0005

Lab Code: ENVSYS

Case No.: 27876

SAS No.

SDG No.: EDCJB

Lab Sample ID: 0322VWBB1

Date Received:

Lab File ID: 0322VWBB1

Date Analyzed: 03/22/00

Purge Volume: 25.00 (ml)

Dilution Factor: 1.0

GC Column: RTX-502.2 ID: 0.530 (mm) Length: 105 (m)

CONCENTRATION

CAS NO.

COMPOUND

(ug/L)

Q

| CAS NO.    | COMPOUND                    | CONCENTRATION (ug/L) | Q |
|------------|-----------------------------|----------------------|---|
| 74-87-3    | Chloromethane               | 1                    | U |
| 74-83-9    | Bromomethane                | 1                    | U |
| 75-01-4    | Vinyl chloride              | 1                    | U |
| 75-00-3    | Chloroethane                | 1                    | U |
| 75-09-2    | Methylene chloride          | 2                    | U |
| 67-64-1    | Acetone                     | 5                    | U |
| 75-15-0    | Carbon disulfide            | 1                    | U |
| 75-35-4    | 1,1-Dichloroethene          | 1                    | U |
| 75-34-3    | 1,1-Dichloroethane          | 1                    | U |
| 156-59-2   | cis-1,2-Dichloroethene      | 1                    | U |
| 156-60-5   | trans-1,2-Dichloroethene    | 1                    | U |
| 67-66-3    | Chloroform                  | 1                    | U |
| 107-06-2   | 1,2-Dichloroethane          | 1                    | U |
| 78-93-3    | 2-Butanone                  | 5                    | U |
| 74-97-5    | Bromochloromethane          | 1                    | U |
| 71-55-6    | 1,1,1-Trichloroethane       | 1                    | U |
| 56-23-5    | Carbon tetrachloride        | 1                    | U |
| 75-27-4    | Bromodichloromethane        | 1                    | U |
| 78-87-5    | 1,2-Dichloropropane         | 1                    | U |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1                    | U |
| 79-01-6    | Trichloroethene             | 1                    | U |
| 124-48-1   | Dibromochloromethane        | 1                    | U |
| 79-00-5    | 1,1,2-Trichloroethane       | 1                    | U |
| 71-43-2    | Benzene                     | 1                    | U |
| 10061-02-6 | trans-1,3-Dichloropropene   | 1                    | U |
| 75-25-2    | Bromoform                   | 1                    | U |
| 108-10-1   | 4-Methyl-2-pentanone        | 5                    | U |
| 591-78-6   | 2-Hexanone                  | 5                    | U |
| 127-18-4   | Tetrachloroethene           | 1                    | U |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 1                    | U |
| 106-93-4   | 1,2-Dibromoethane           | 1                    | U |
| 108-88-3   | Toluene                     | 1                    | U |
| 108-90-7   | Chlorobenzene               | 1                    | U |
| 100-41-4   | Ethylbenzene                | 1                    | U |
| 100-42-5   | Styrene                     | 1                    | U |
| 1330-20-7  | Xylenes (total)             | 1                    | U |
| 541-73-1   | 1,3-Dichlorobenzene         | 1                    | U |
| 106-46-7   | 1,4-Dichlorobenzene         | 1                    | U |
| 95-50-1    | 1,2-Dichlorobenzene         | 1                    | U |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | 1                    | U |
| 120-82-1   | 1,2,4-Trichlorobenzene      | 1                    | U |

1LCE  
LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO

VBLKBG

Lab Name: ENVIROSYSTEMS

Contract: 68-D7-0005

Lab Code: ENVSYS

Case No.: 27876

SAS No.:

SDG No.: EDCJ8

Lab Sample ID: 0322VWBB1

Date Received:

Lab File ID: 0322VWBB1

Date Analyzed: 03/22/00

Purge Volume: 25.00 (ml)

Dilution Factor: 1.0

GC Column: RTX-502.2 ID: 0.530 (mm) Length: 105 (m)

Number TICs found: 0

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC.<br>(ug/L) | Q |
|------------|---------------|----|----------------------|---|
|            |               |    |                      |   |

100A  
 LOW CONC WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

VBLKBH

Lab Name: ENVIRDSYSTEMS

Contract 68-D7-0005

Lab Code: ENVSYS

Case No.: 27876

SAS No.:

SDG No.: EDCJ8

Lab Sample ID: 0323VWBB1

Date Received:

Lab File ID: 0323VWBB1

Date Analyzed: 03/23/00

Purge Volume: 25.00 (ml)

Dilution Factor: 1 0

GC Column: RTX-502.2 ID: 0.530 (mm) Length: 105 (m)

| CAS NO.    | COMPOUND                    | CONCENTRATION<br>(ug/L) | Q |
|------------|-----------------------------|-------------------------|---|
| 74-87-3    | Chloromethane               | 1                       | U |
| 74-83-9    | Bromomethane                | 1                       | U |
| 75-01-4    | Vinyl chloride              | 1                       | U |
| 75-00-3    | Chloroethane                | 1                       | U |
| 75-09-2    | Methylene chloride          | 0.7                     | J |
| 67-64-1    | Acetone                     | 5                       | U |
| 75-15-0    | Carbon disulfide            | 1                       | U |
| 75-35-4    | 1,1-Dichloroethene          | 1                       | U |
| 75-34-3    | 1,1-Dichloroethane          | 1                       | U |
| 156-59-2   | cis-1,2-Dichloroethene      | 1                       | U |
| 156-60-5   | trans-1,2-Dichloroethene    | 1                       | U |
| 67-66-3    | Chloroform                  | 1                       | U |
| 107-06-2   | 1,2-Dichloroethane          | 1                       | U |
| 78-93-3    | 2-Butanone                  | 5                       | U |
| 74-97-5    | Bromochloromethane          | 1                       | U |
| 71-55-6    | 1,1,1-Trichloroethane       | 1                       | U |
| 56-23-5    | Carbon tetrachloride        | 1                       | U |
| 75-27-4    | Bromodichloromethane        | 1                       | U |
| 78-87-5    | 1,2-Dichloropropane         | 1                       | U |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1                       | U |
| 79-01-6    | Trichloroethene             | 1                       | U |
| 124-48-1   | Dibromochloromethane        | 1                       | U |
| 79-00-5    | 1,1,2-Trichloroethane       | 1                       | U |
| 71-43-2    | Benzene                     | 1                       | U |
| 10061-02-6 | trans-1,3-Dichloropropene   | 1                       | U |
| 75-25-2    | Bromoform                   | 1                       | U |
| 108-10-1   | 4-Methyl-2-pentanone        | 5                       | U |
| 591-78-6   | 2-Hexanone                  | 5                       | U |
| 127-18-4   | Tetrachloroethene           | 1                       | U |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 1                       | U |
| 106-93-4   | 1,2-Dibromoethane           | 1                       | U |
| 108-88-3   | Toluene                     | 1                       | U |
| 108-90-7   | Chlorobenzene               | 1                       | U |
| 100-41-4   | Ethylbenzene                | 1                       | U |
| 100-42-5   | Styrene                     | 1                       | U |
| 1330-20-7  | Xylenes (total)             | 1                       | U |
| 541-73-1   | 1,3-Dichlorobenzene         | 1                       | U |
| 106-46-7   | 1,4-Dichlorobenzene         | 1                       | U |
| 95-50-1    | 1,2-Dichlorobenzene         | 1                       | U |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | 1                       | U |
| 120-82-1   | 1,2,4-Trichlorobenzene      | 1                       | U |

LOW CONC WATER VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO

VBKKBH

Lab Name: ENVIROSYSTEMS

Contract: 68-D7-0005

Lab Code: ENVSYS

Case No.: 27876

SAS No.:

SDG No.: EDCJ8

Lab Sample ID: 0323VWBB1

Date Received:

Lab File ID: 0323VWBB1

Date Analyzed: 03/23/00

Purge Volume: 25.00 (ml)

Dilution Factor: 1.0

GC Column: RTX-502.2 ID: 0.530 (mm) Length: 105 (m)

Number TICs found: 0

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC.<br>(ug/L) | Q |
|------------|---------------|----|----------------------|---|
|            |               |    |                      |   |

1LCA  
 LOW CONC WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

VLC SBG

Lab Name ENVIROSYSTEMS

Contract 68-D7-0005

Lab Code: ENVSYS

Case No.: 27876

SAS No.:

SDG No.: EDCJB

Lab Sample ID: 0322LCSB1

Date Received:

Lab File ID: 0322LCSB1

Date Analyzed: 03/22/00

Purge Volume: 25.00 (ml)

Dilution Factor: 1.0

GC Column: RTX-502.2 ID: 0.530 (mm) Length: 105 (m)

| CAS NO.    | COMPOUND                    | CONCENTRATION<br>(ug/L) | Q |
|------------|-----------------------------|-------------------------|---|
| 74-87-3    | Chloromethane               | 1                       | U |
| 74-83-9    | Bromomethane                | 1                       | U |
| 75-01-4    | Vinyl chloride              | 3                       |   |
| 75-00-3    | Chloroethane                | 1                       | U |
| 75-09-2    | Methylene chloride          | 2                       | U |
| 67-64-1    | Acetone                     | 5                       | U |
| 75-15-0    | Carbon disulfide            | 1                       | U |
| 75-35-4    | 1,1-Dichloroethene          | 1                       | U |
| 75-34-3    | 1,1-Dichloroethane          | 1                       | U |
| 156-59-2   | cis-1,2-Dichloroethene      | 1                       | U |
| 156-60-5   | trans-1,2-Dichloroethene    | 1                       | U |
| 67-66-3    | Chloroform                  | 1                       | U |
| 107-06-2   | 1,2-Dichloroethane          | 6                       |   |
| 78-93-3    | 2-Butanone                  | 5                       | U |
| 74-97-5    | Bromochloromethane          | 1                       | U |
| 71-55-6    | 1,1,1-Trichloroethane       | 1                       | U |
| 56-23-5    | Carbon tetrachloride        | 5                       |   |
| 75-27-4    | Bromodichloromethane        | 1                       | U |
| 78-87-5    | 1,2-Dichloropropane         | 5                       |   |
| 10061-01-5 | cis-1,3-Dichloropropene     | 4                       |   |
| 79-01-6    | Trichloroethene             | 5                       |   |
| 124-48-1   | Dibromochloromethane        | 1                       | U |
| 79-00-5    | 1,1,2-Trichloroethane       | 4                       |   |
| 71-43-2    | Benzene                     | 6                       |   |
| 10061-02-6 | trans-1,3-Dichloropropene   | 3                       |   |
| 75-25-2    | Bromoform                   | 5                       |   |
| 108-10-1   | 4-Methyl-2-pentanone        | 5                       | U |
| 591-78-6   | 2-Hexanone                  | 5                       | U |
| 127-18-4   | Tetrachloroethene           | 4                       |   |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 1                       | U |
| 106-93-4   | 1,2-Dibromoethane           | 4                       |   |
| 108-88-3   | Toluene                     | 1                       | U |
| 108-90-7   | Chlorobenzene               | 1                       | U |
| 100-41-4   | Ethylbenzene                | 1                       | U |
| 100-42-5   | Styrene                     | 1                       | U |
| 1330-20-7  | Xylenes (total)             | 1                       | U |
| 541-73-1   | 1,3-Dichlorobenzene         | 1                       | U |
| 106-46-7   | 1,4-Dichlorobenzene         | 4                       |   |
| 95-50-1    | 1,2-Dichlorobenzene         | 1                       | U |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | 1                       | U |
| 120-82-1   | 1,2,4-Trichlorobenzene      | 1                       | U |

1004  
 LOW CONC WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

EDCJ4

Lab Name: ENVIROSYSTEMS

Contract 68-D7-0005

Lab Code: ENVSYS

Case No.: 27876

SAS No.:

SDG No.: EDCJ8

Lab Sample ID: 00030920

Date Received: 03/18/00

Lab File ID: 030920

Date Analyzed: 03/22/00

Purge Volume: 25.00 (ml)

Dilution Factor: 1.0

GC Column: RTX-502.2 ID: 0.530 (mm) Length: 105 (m)

| CAS NO.    | COMPOUND                    | CONCENTRATION<br>(ug/L) | Q |
|------------|-----------------------------|-------------------------|---|
| 74-87-3    | Chloromethane               | 1                       | U |
| 74-83-9    | Bromomethane                | 1                       | U |
| 75-01-4    | Vinyl chloride              | 1                       | U |
| 75-00-3    | Chloroethane                | 1                       | U |
| 75-09-2    | Methylene chloride          | 2                       | U |
| 67-64-1    | Acetone                     | 5                       | U |
| 75-15-0    | Carbon disulfide            | 1                       | U |
| 75-35-4    | 1,1-Dichloroethene          | 1                       | U |
| 75-34-3    | 1,1-Dichloroethane          | 1                       | U |
| 156-59-2   | cis-1,2-Dichloroethene      | 1                       | U |
| 156-60-5   | trans-1,2-Dichloroethene    | 1                       | U |
| 67-66-3    | Chloroform                  | 1                       | U |
| 107-06-2   | 1,2-Dichloroethane          | 1                       | U |
| 78-93-3    | 2-Butanone                  | 5                       | U |
| 74-97-5    | Bromochloromethane          | 1                       | U |
| 71-55-6    | 1,1,1-Trichloroethane       | 1                       | U |
| 56-23-5    | Carbon tetrachloride        | 1                       | U |
| 75-27-4    | Bromodichloromethane        | 1                       | U |
| 78-87-5    | 1,2-Dichloropropane         | 1                       | U |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1                       | U |
| 79-01-6    | Trichloroethene             | 1                       | U |
| 124-48-1   | Dibromochloromethane        | 1                       | U |
| 79-00-5    | 1,1,2-Trichloroethane       | 1                       | U |
| 71-43-2    | Benzene                     | 1                       | U |
| 10061-02-6 | trans-1,3-Dichloropropene   | 1                       | U |
| 75-25-2    | Bromoform                   | 1                       | U |
| 108-10-1   | 4-Methyl-2-pentanone        | 5                       | U |
| 591-78-6   | 2-Hexanone                  | 5                       | U |
| 127-18-4   | Tetrachloroethene           | 1                       | U |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 1                       | U |
| 106-93-4   | 1,2-Dibromoethane           | 1                       | U |
| 108-88-3   | Toluene                     | 1                       | U |
| 108-90-7   | Chlorobenzene               | 1                       | U |
| 100-41-4   | Ethylbenzene                | 1                       | U |
| 100-42-5   | Styrene                     | 1                       | U |
| 1330-20-7  | Xylenes (total)             | 1                       | U |
| 541-73-1   | 1,3-Dichlorobenzene         | 1                       | U |
| 106-46-7   | 1,4-Dichlorobenzene         | 1                       | U |
| 95-50-1    | 1,2-Dichlorobenzene         | 1                       | U |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | 1                       | U |
| 120-82-1   | 1,2,4-Trichlorobenzene      | 1                       | U |

LOW CONC WATER VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EDCJ4

Lab Name: ENVIROSYSTEMS Contract: 68-D7-0005  
 Lab Code: ENVSYS Case No.: 27876 SAS No.: SDG No.: EDCJ8  
 Lab Sample ID: 00030920 Date Received: 03/18/00  
 Lab File ID: 030920 Date Analyzed: 03/22/00  
 Purge Volume: 25.00 (ml) Dilution Factor: 1.0  
 GC Column: RTX-502.2 ID: 0.530 (mm) Length: 105 (m)  
 Number TICs found: 0

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC.<br>(ug/L) | Q |
|------------|---------------|----|----------------------|---|
|            |               |    |                      |   |

1LCA  
 LOW CONC WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

SFA SAMPLE NO

EDCJ5

Lab Name: ENVIROSYSTEMS

Contract: 68-D7-0005

Lab Code: ENVSYS

Case No.: 27876

SAS No.:

SDG No.: EDCJ8

Lab Sample ID: 00030921

Date Received: 03/18/00

Lab File ID: 030921

Date Analyzed: 03/22/00

Purge Volume: 25.00 (ml)

Dilution Factor: 1.0

GC Column: RTX-502.2 ID: 0.530 (mm) Length: 105 (m)

| CAS NO.    | COMPOUND                    | CONCENTRATION<br>(ug/L) | Q |
|------------|-----------------------------|-------------------------|---|
|            | 54287                       |                         |   |
| 74-87-3    | Chloromethane               | 1                       | U |
| 74-83-9    | Bromomethane                | 1                       | U |
| 75-01-4    | Vinyl chloride              | 1                       | U |
| 75-00-3    | Chloroethane                | 1                       | U |
| 75-09-2    | Methylene chloride          | 2                       | U |
| 67-64-1    | Acetone                     | 5                       | U |
| 75-15-0    | Carbon disulfide            | 1                       | U |
| 75-35-4    | 1,1-Dichloroethene          | 1                       | U |
| 75-34-3    | 1,1-Dichloroethane          | 7                       | U |
| 156-59-2   | cis-1,2-Dichloroethene      | 0.5                     | U |
| 156-60-5   | trans-1,2-Dichloroethene    | 1                       | U |
| 67-66-3    | Chloroform                  | 1                       | U |
| 107-06-2   | 1,2-Dichloroethane          | 0.7                     | U |
| 78-93-3    | 2-Butanone                  | 5                       | U |
| 74-97-5    | Bromochloromethane          | 1                       | U |
| 71-55-6    | 1,1,1-Trichloroethane       | 1                       | U |
| 56-23-5    | Carbon tetrachloride        | 1                       | U |
| 75-27-4    | Bromodichloromethane        | 1                       | U |
| 78-87-5    | 1,2-Dichloropropane         | 1                       | U |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1                       | U |
| 79-01-6    | Trichloroethene             | 1                       | U |
| 124-48-1   | Dibromochloromethane        | 1                       | U |
| 79-00-5    | 1,1,2-Trichloroethane       | 1                       | U |
| 71-43-2    | Benzene                     | 0.4                     | U |
| 10061-02-6 | trans-1,3-Dichloropropene   | 1                       | U |
| 75-25-2    | Bromoform                   | 1                       | U |
| 108-10-1   | 4-Methyl-2-pentanone        | 5                       | U |
| 591-78-6   | 2-Hexanone                  | 5                       | U |
| 127-18-4   | Tetrachloroethene           | 1                       | U |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 1                       | U |
| 106-93-4   | 1,2-Dibromoethane           | 1                       | U |
| 108-88-3   | Toluene                     | 1                       | U |
| 108-90-7   | Chlorobenzene               | 1                       | U |
| 100-41-4   | Ethylbenzene                | 1                       | U |
| 100-42-5   | Styrene                     | 1                       | U |
| 1330-20-7  | Xylenes (total)             | 1                       | U |
| 541-73-1   | 1,3-Dichlorobenzene         | 1                       | U |
| 106-46-7   | 1,4-Dichlorobenzene         | 1                       | U |
| 95-50-1    | 1,2-Dichlorobenzene         | 1                       | U |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | 1                       | U |
| 120-82-1   | 1,2,4-Trichlorobenzene      | 1                       | U |

1102  
LOW CONC WATER VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO

EDCJ5

Lab Name: ENVIROSYSTEMS

Contract: 68-D7-0005

Lab Code: ENVSYS

Case No.: 27876

SAS No.:

SDG No.: EDCJ8

Lab Sample ID: 00030921

Date Received: 03/18/00

Lab File ID: 030921

Date Analyzed: 03/22/00

Purge Volume: 25.00 (ml)

Dilution Factor: 1.0

GC Column: RTX-502.2 ID: 0.530 (mm) Length: 105 (m)

Number TICs found: 0

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC.<br>(ug/L) | Q |
|------------|---------------|----|----------------------|---|
|            |               |    |                      |   |

1004  
 LOW CONC WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

EDCJ8

Lab Name: ENVIROSYSTEMS

Contract: 68-D7-0005

Lab Code: ENVSYS

Case No.: 27876

SAS No.:

SDG No.: EDCJ8

Lab Sample ID: 00030902

Date Received: 03/17/00

Lab File ID: 030902

Date Analyzed: 03/22/00

Purge Volume: 25.00 (ml)

Dilution Factor: 1.0

GC Column: RTX-502.2 ID: 0.530 (mm) Length: 105 (m)

| CAS NO.    | COMPOUND                    | CONCENTRATION<br>(ug/L) | g |
|------------|-----------------------------|-------------------------|---|
| 74-87-3    | Chloromethane               | 1                       | U |
| 74-83-9    | Bromomethane                | 1                       | U |
| 75-01-4    | Vinyl chloride              | 1                       | U |
| 75-00-3    | Chloroethane                | 1                       | U |
| 75-09-2    | Methylene chloride          | 2                       | U |
| 67-64-1    | Acetone                     | 5                       | U |
| 75-15-0    | Carbon disulfide            | 1                       | U |
| 75-35-4    | 1,1-Dichloroethene          | 1                       | U |
| 75-34-3    | 1,1-Dichloroethane          | 1                       | U |
| 156-59-2   | cis-1,2-Dichloroethene      | 1                       | U |
| 156-60-5   | trans-1,2-Dichloroethene    | 1                       | U |
| 67-66-3    | Chloroform                  | 1                       | U |
| 107-06-2   | 1,2-Dichloroethane          | 1                       | U |
| 78-93-3    | 2-Butanone                  | 5                       | U |
| 74-97-5    | Bromochloromethane          | 1                       | U |
| 71-55-6    | 1,1,1-Trichloroethane       | 1                       | U |
| 56-23-5    | Carbon tetrachloride        | 1                       | U |
| 75-27-4    | Bromodichloromethane        | 1                       | U |
| 78-87-5    | 1,2-Dichloropropane         | 1                       | U |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1                       | U |
| 79-01-6    | Trichloroethene             | 1                       | U |
| 124-48-1   | Dibromochloromethane        | 1                       | U |
| 79-00-5    | 1,1,2-Trichloroethane       | 1                       | U |
| 71-43-2    | Benzene                     | 1                       | U |
| 10061-02-6 | trans-1,3-Dichloropropene   | 1                       | U |
| 75-25-2    | Bromoform                   | 1                       | U |
| 108-10-1   | 4-Methyl-2-pentanone        | 5                       | U |
| 591-78-6   | 2-Hexanone                  | 5                       | U |
| 127-18-4   | Tetrachloroethene           | 1                       | U |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 1                       | U |
| 106-93-4   | 1,2-Dibromoethane           | 1                       | U |
| 108-88-3   | Toluene                     | 1                       | U |
| 108-90-7   | Chlorobenzene               | 1                       | U |
| 100-41-4   | Ethylbenzene                | 1                       | U |
| 100-42-5   | Styrene                     | 1                       | U |
| 1330-20-7  | Xylenes (total)             | 1                       | U |
| 541-73-1   | 1,3-Dichlorobenzene         | 1                       | U |
| 106-46-7   | 1,4-Dichlorobenzene         | 1                       | U |
| 95-50-1    | 1,2-Dichlorobenzene         | 1                       | U |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | 1                       | U |
| 120-82-1   | 1,2,4-Trichlorobenzene      | 1                       | U |

54205  
~~54205~~ *NSM*

GC/MS  
LOW CONC WATER VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EDCJ8

Lab Name: ENVIROSYSTEMS

Contract: 68-D7-0005

Lab Code: ENVSYS Case No. 27876

SAS No.: SDG No.: EDCJ8

Lab Sample ID: 00030902

Date Received: 03/17/00

Lab File ID: 030902

Date Analyzed: 03/22/00

Purge Volume: 25.00 (ml)

Dilution Factor: 1.0

GC Column: RTX-502.2 ID: 0.530 (mm) Length: 105 (m)

Number TICs found: 0

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC.<br>(ug/L) | Q |
|------------|---------------|----|----------------------|---|
|            |               |    |                      |   |

1LCA  
 LOW CONC WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

EDCJ9

Lab Name: ENVIROSYSTEMS

Contract: 68-D7-0005

Lab Code: ENVSYS

Case No.: 27876

SAS No.:

SDG No.: EDCJ8

Lab Sample ID: 00030922

Date Received: 03/18/00

Lab File ID: 030922

Date Analyzed: 03/22/00

Purge Volume: 25.00 (ml)

Dilution Factor: 1.0

GC Column: RTX-502.2 ID: 0.530 (mm) Length: 105 (m)

| CAS NO.    | COMPOUND                    | CONCENTRATION<br>(ug/L) | Q |
|------------|-----------------------------|-------------------------|---|
|            | <i>59887 R</i>              |                         |   |
| 74-87-3    | Chloromethane               | 1                       | U |
| 74-83-9    | Bromomethane                | 1                       | U |
| 75-01-4    | Vinyl chloride              | 1                       | U |
| 75-00-3    | Chloroethane                | 1                       | U |
| 75-09-2    | Methylene chloride          | 2                       | U |
| 67-64-1    | Acetone                     | 5                       | U |
| 75-15-0    | Carbon disulfide            | 1                       | U |
| 75-35-4    | 1,1-Dichloroethene          | 1                       | U |
| 75-34-3    | 1,1-Dichloroethane          | 7                       |   |
| 156-59-2   | cis-1,2-Dichloroethene      | 0.5                     | J |
| 156-60-5   | trans-1,2-Dichloroethene    | 1                       | U |
| 67-66-3    | Chloroform                  | 1                       | U |
| 107-06-2   | 1,2-Dichloroethane          | 1                       | U |
| 78-93-3    | 2-Butanone                  | 5                       | U |
| 74-97-5    | Bromochloromethane          | 1                       | U |
| 71-55-6    | 1,1,1-Trichloroethane       | 1                       | U |
| 56-23-5    | Carbon tetrachloride        | 1                       | U |
| 75-27-4    | Bromodichloromethane        | 1                       | U |
| 78-87-5    | 1,2-Dichloropropane         | 1                       | U |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1                       | U |
| 79-01-6    | Trichloroethene             | 1                       | U |
| 124-48-1   | Dibromochloromethane        | 1                       | U |
| 79-00-5    | 1,1,2-Trichloroethane       | 1                       | U |
| 71-43-2    | Benzene                     | 0.4                     | J |
| 10061-02-6 | trans-1,3-Dichloropropene   | 1                       | U |
| 75-25-2    | Bromoform                   | 1                       | U |
| 108-10-1   | 4-Methyl-2-pentanone        | 5                       | U |
| 591-78-6   | 2-Hexanone                  | 5                       | U |
| 127-18-4   | Tetrachloroethene           | 1                       | U |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 1                       | U |
| 106-93-4   | 1,2-Dibromoethane           | 1                       | U |
| 108-88-3   | Toluene                     | 1                       | U |
| 108-90-7   | Chlorobenzene               | 1                       | U |
| 100-41-4   | Ethylbenzene                | 1                       | U |
| 100-42-5   | Styrene                     | 1                       | U |
| 1330-20-7  | Xylenes (total)             | 1                       | U |
| 541-73-1   | 1,3-Dichlorobenzene         | 1                       | U |
| 106-46-7   | 1,4-Dichlorobenzene         | 1                       | U |
| 95-50-1    | 1,2-Dichlorobenzene         | 1                       | U |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | 1                       | U |
| 120-82-1   | 1,2,4-Trichlorobenzene      | 1                       | U |

1019  
LOW CONC WATER VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO

EDCJ9

Lab Name: ENVIROSYSTEMS

Contract: 68-D7-0005

Lab Code: ENVSYS

Case No.: 27876

SAS No.:

SDG No.: EDCJ8

Lab Sample ID: 00030922

Date Received: 03/18/00

Lab File ID: 030922

Date Analyzed: 03/22/00

Purge Volume: 25.00 (ml)

Dilution Factor: 1.0

GC Column: RTX-502.2 ID: 0.530 (mm) Length: 105 (m)

Number TICs found: 0

| CAS NUMBER | COMPOUND NAME | RT    | EST. CONC.<br>(ug/L) | Q     |
|------------|---------------|-------|----------------------|-------|
| =====      | =====         | ===== | =====                | ===== |

0056

100A  
 LOW CONC WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDCKO

Lab Name ENVIROSYSTEMS

Contract 68-D7-0005

Lab Code: ENVSYS

Case No.: 27876

SAS No.:

SDG No.: EDCJ9

Lab Sample ID. 00030903

Date Received: 03/17/00

Lab File ID. 030903

Date Analyzed: 03/22/00

Purge Volume: 25.00 (ml)

Dilution Factor: 1.0

GC Column: RTX 502.2 ID: 0.530 (mm) Length: 105 (m)

| CAS NO.    | COMPOUND                    | CONCENTRATION<br>(ug/L) | Q |
|------------|-----------------------------|-------------------------|---|
|            | 54271                       |                         |   |
| 74-87-3    | Chloromethane               | 1                       | U |
| 74-83-9    | Bromomethane                | 1                       | U |
| 75-01-4    | Vinyl chloride              | 1                       | U |
| 75-00-3    | Chloroethane                | 1                       | U |
| 75-09-2    | Methylene chloride          | 2                       | U |
| 67-64-1    | Acetone                     | 5                       | U |
| 75-15-0    | Carbon disulfide            | 1                       | U |
| 75-35-4    | 1,1-Dichloroethene          | 1                       | U |
| 75-34-3    | 1,1-Dichloroethane          | 0.6                     | U |
| 156-59-2   | cis-1,2-Dichloroethene      | 1                       | U |
| 156-60-5   | trans-1,2-Dichloroethene    | 1                       | U |
| 67-66-3    | Chloroform                  | 1                       | U |
| 107-06-2   | 1,2-Dichloroethane          | 1                       | U |
| 78-93-3    | 2-Butanone                  | 5                       | U |
| 74-97-5    | Bromochloromethane          | 1                       | U |
| 71-55-6    | 1,1,1-Trichloroethane       | 1                       | U |
| 56-23-5    | Carbon tetrachloride        | 1                       | U |
| 75-27-4    | Bromodichloromethane        | 1                       | U |
| 78-87-5    | 1,2-Dichloropropane         | 1                       | U |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1                       | U |
| 79-01-6    | Trichloroethene             | 1                       | U |
| 124-48-1   | Dibromochloromethane        | 1                       | U |
| 79-00-5    | 1,1,2-Trichloroethane       | 1                       | U |
| 71-43-2    | Benzene                     | 1                       | U |
| 10061-02-6 | trans-1,3-Dichloropropene   | 1                       | U |
| 75-25-2    | Bromoform                   | 1                       | U |
| 108-10-1   | 4-Methyl-2-pentanone        | 5                       | U |
| 591-78-6   | 2-Hexanone                  | 5                       | U |
| 127-18-4   | Tetrachloroethene           | 1                       | U |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 1                       | U |
| 106-93-4   | 1,2-Dibromoethane           | 1                       | U |
| 108-88-3   | Toluene                     | 1                       | U |
| 108-90-7   | Chlorobenzene               | 1                       | U |
| 100-41-4   | Ethylbenzene                | 1                       | U |
| 100-42-5   | Styrene                     | 1                       | U |
| 1330-20-7  | Xylenes (total)             | 1                       | U |
| 541-73-1   | 1,3-Dichlorobenzene         | 1                       | U |
| 106-46-7   | 1,4-Dichlorobenzene         | 1                       | U |
| 95-50-1    | 1,2-Dichlorobenzene         | 1                       | U |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | 1                       | U |
| 120-82-1   | 1,2,4-Trichlorobenzene      | 1                       | U |

LOW CONC WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EDCK1

Lab Name: ENVIROSYSTEMS Contract: 68-D7-0005  
 Lab Code: ENVSYS Case No.: 27876 SAS No.: SDG No.: EDCJB  
 Lab Sample ID: 00030904 Date Received: 03/17/00  
 Lab File ID: 030904 Date Analyzed: 03/22/00  
 Purge Volume: 25.00 (ml) Dilution Factor: 1.0  
 GC Column: RTX-502.2 ID: 0.530 (mm) Length: 105 (m)

| CAS NO.    | COMPOUND                    | CONCENTRATION (ug/L) | Q |
|------------|-----------------------------|----------------------|---|
| 74-87-3    | Chloromethane               | 1                    | U |
| 74-83-9    | Bromomethane                | 1                    | U |
| 75-01-4    | Vinyl chloride              | 1                    | U |
| 75-00-3    | Chloroethane                | 1                    | U |
| 75-09-2    | Methylene chloride          | 2                    | U |
| 67-64-1    | Acetone                     | 5                    | U |
| 75-15-0    | Carbon disulfide            | 1                    | U |
| 75-35-4    | 1,1-Dichloroethene          | 1                    | U |
| 75-34-3    | 1,1-Dichloroethane          | 1                    | U |
| 156-59-2   | cis-1,2-Dichloroethene      | 1                    | U |
| 156-60-5   | trans-1,2-Dichloroethene    | 1                    | U |
| 67-66-3    | Chloroform                  | 1                    | U |
| 107-06-2   | 1,2-Dichloroethane          | 0.6                  | J |
| 78-93-3    | 2-Butanone                  | 5                    | U |
| 74-97-5    | Bromochloromethane          | 1                    | U |
| 71-55-6    | 1,1,1-Trichloroethane       | 1                    | U |
| 56-23-5    | Carbon tetrachloride        | 1                    | U |
| 75-27-4    | Bromodichloromethane        | 1                    | U |
| 78-87-5    | 1,2-Dichloropropane         | 1                    | U |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1                    | U |
| 79-01-6    | Trichloroethene             | 1                    | U |
| 124-48-1   | Dibromochloromethane        | 1                    | U |
| 79-00-5    | 1,1,2-Trichloroethane       | 1                    | U |
| 71-43-2    | Benzene                     | 1                    | U |
| 10061-02-6 | trans-1,3-Dichloropropene   | 1                    | U |
| 75-25-2    | Bromoform                   | 1                    | U |
| 108-10-1   | 4-Methyl-2-pentanone        | 5                    | U |
| 591-78-6   | 2-Hexanone                  | 5                    | U |
| 127-18-4   | Tetrachloroethene           | 1                    | U |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 1                    | U |
| 106-93-4   | 1,2-Dibromoethane           | 1                    | U |
| 108-88-3   | Toluene                     | 1                    | U |
| 108-90-7   | Chlorobenzene               | 1                    | U |
| 100-41-4   | Ethylbenzene                | 1                    | U |
| 100-42-5   | Styrene                     | 1                    | U |
| 1330-20-7  | Xylenes (total)             | 1                    | U |
| 541-73-1   | 1,3-Dichlorobenzene         | 1                    | U |
| 106-46-7   | 1,4-Dichlorobenzene         | 1                    | U |
| 95-50-1    | 1,2-Dichlorobenzene         | 1                    | U |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | 1                    | U |
| 120-82-1   | 1,2,4-Trichlorobenzene      | 1                    | U |

54253

1LCE  
LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO

EDCKO

Lab Name: ENVIROSYSTEMS

Contract: 68-D7-0005

Lab Code: ENVSYS

Case No.: 27876

SAS No.:

SDG No.: EDCUB

Lab Sample ID: C0030903

Date Received: 03/17/00

Lab File ID: 030903

Date Analyzed: 03/22/00

Purge Volume: 25.00 (ml)

Dilution Factor: 1.0

GC Column: RTX-502 2 ID: 0.530 (mm) Length: 105 (m)

Number TICs found: 0

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC.<br>(ug/L) | Q |
|------------|---------------|----|----------------------|---|
|            |               |    |                      |   |

ILCA  
 LOW CONC WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

EDCK1

Lab Name: ENVIROSYSTEMS

Contract: 68-D7-0005

Lab Code: ENVSYS

Case No.: 27876

SAS No.:

SDG No.: EDCJB

Lab Sample ID: 00030904

Date Received: 03/17/00

Lab File ID: 030904

Date Analyzed: 03/22/00

Purge Volume: 25.00 (ml)

Dilution Factor: 1.0

GC Column: RTX-502.2 ID: 0.530 (mm) Length: 105 (m)

CAS NO. COMPOUND CONCENTRATION (ug/L) g

54253

|            |                             |     |   |
|------------|-----------------------------|-----|---|
| 74-87-3    | Chloromethane               | 1   | U |
| 74-83-9    | Bromomethane                | 1   | U |
| 75-01-4    | Vinyl chloride              | 1   | U |
| 75-00-3    | Chloroethane                | 1   | U |
| 75-09-2    | Methylene chloride          | 2   | U |
| 67-64-1    | Acetone                     | 5   | U |
| 75-15-0    | Carbon disulfide            | 1   | U |
| 75-35-4    | 1,1-Dichloroethene          | 1   | U |
| 75-34-3    | 1,1-Dichloroethane          | 1   | U |
| 156-59-2   | cis-1,2-Dichloroethene      | 1   | U |
| 156-60-5   | trans-1,2-Dichloroethene    | 1   | U |
| 67-66-3    | Chloroform                  | 1   | U |
| 107-06-2   | 1,2-Dichloroethane          | 0.6 | J |
| 78-93-3    | 2-Butanone                  | 5   | U |
| 74-97-5    | Bromochloromethane          | 1   | U |
| 71-55-6    | 1,1,1-Trichloroethane       | 1   | U |
| 56-23-5    | Carbon tetrachloride        | 1   | U |
| 75-27-4    | Bromodichloromethane        | 1   | U |
| 78-87-5    | 1,2-Dichloropropane         | 1   | U |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1   | U |
| 79-01-6    | Trichloroethene             | 1   | U |
| 124-48-1   | Dibromochloromethane        | 1   | U |
| 79-00-5    | 1,1,2-Trichloroethane       | 1   | U |
| 71-43-2    | Benzene                     | 1   | U |
| 10061-02-6 | trans-1,3-Dichloropropene   | 1   | U |
| 75-25-2    | Bromoform                   | 1   | U |
| 108-10-1   | 4-Methyl-2-pentanone        | 5   | U |
| 591-78-6   | 2-Hexanone                  | 5   | U |
| 127-18-4   | Tetrachloroethene           | 1   | U |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 1   | U |
| 106-93-4   | 1,2-Dibromoethane           | 1   | U |
| 108-88-3   | Toluene                     | 1   | U |
| 108-90-7   | Chlorobenzene               | 1   | U |
| 100-41-4   | Ethylbenzene                | 1   | U |
| 100-42-5   | Styrene                     | 1   | U |
| 1330-20-7  | Xylenes (total)             | 1   | U |
| 541-73-1   | 1,3-Dichlorobenzene         | 1   | U |
| 106-46-7   | 1,4-Dichlorobenzene         | 1   | U |
| 95-50-1    | 1,2-Dichlorobenzene         | 1   | U |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | 1   | U |
| 120-82-1   | 1,2,4-Trichlorobenzene      | 1   | U |

LOW CONC WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

EDCKO

Lab Name: ENVIROSYSTEMS

Contract: 68-D7-0005

Lab Code: ENVSYS

Case No.: 27876

SAS No.:

SDG No.: EDCJ9

Lab Sample ID: 00030903

Date Received: 03/17/00

Lab File ID: 030903

Date Analyzed: 03/22/00

Purge Volume: 25.00 (ml)

Dilution Factor: 1.0

GC Column: RTX 502.2 ID: 0.530 (mm) Length: 105 (m)

CONCENTRATION

CAS NO.

COMPOUND

(ug/L)

Q

54271

|            |                             |     |   |
|------------|-----------------------------|-----|---|
| 74-87-3    | Chloromethane               | 1   | U |
| 74-83-9    | Bromomethane                | 1   | U |
| 75-01-4    | Vinyl chloride              | 1   | U |
| 75-00-3    | Chloroethane                | 1   | U |
| 75-09-2    | Methylene chloride          | 2   | U |
| 67-64-1    | Acetone                     | 5   | U |
| 75-15-0    | Carbon disulfide            | 1   | U |
| 75-35-4    | 1,1-Dichloroethene          | 1   | U |
| 75-34-3    | 1,1-Dichloroethane          | 0.6 | U |
| 156-59-2   | cis-1,2-Dichloroethene      | 1   | U |
| 156-60-5   | trans-1,2-Dichloroethene    | 1   | U |
| 67-66-3    | Chloroform                  | 1   | U |
| 107-06-2   | 1,2-Dichloroethane          | 1   | U |
| 78-93-3    | 2-Butanone                  | 5   | U |
| 74-97-5    | Bromochloromethane          | 1   | U |
| 71-55-6    | 1,1,1-Trichloroethane       | 1   | U |
| 56-23-5    | Carbon tetrachloride        | 1   | U |
| 75-27-4    | Bromodichloromethane        | 1   | U |
| 78-87-5    | 1,2-Dichloropropane         | 1   | U |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1   | U |
| 79-01-6    | Trichloroethene             | 1   | U |
| 124-48-1   | Dibromochloromethane        | 1   | U |
| 79-00-5    | 1,1,2-Trichloroethane       | 1   | U |
| 71-43-2    | Benzene                     | 1   | U |
| 10061-02-6 | trans-1,3-Dichloropropene   | 1   | U |
| 75-25-2    | Bromoform                   | 1   | U |
| 108-10-1   | 4-Methyl-2-pentanone        | 5   | U |
| 591-78-6   | 2-Hexanone                  | 5   | U |
| 127-18-4   | Tetrachloroethene           | 1   | U |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 1   | U |
| 106-93-4   | 1,2-Dibromoethane           | 1   | U |
| 108-88-3   | Toluene                     | 1   | U |
| 108-90-7   | Chlorobenzene               | 1   | U |
| 100-41-4   | Ethylbenzene                | 1   | U |
| 100-42-5   | Styrene                     | 1   | U |
| 1330-20-7  | Xylenes (total)             | 1   | U |
| 541-73-1   | 1,3-Dichlorobenzene         | 1   | U |
| 106-46-7   | 1,4-Dichlorobenzene         | 1   | U |
| 95-50-1    | 1,2-Dichlorobenzene         | 1   | U |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | 1   | U |
| 120-82-1   | 1,2,4-Trichlorobenzene      | 1   | U |

1102  
LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EDCK1

Lab Name: ENVIROSYSTEMS

Contract: 68-D7-0005

Lab Code: ENVSYS

Case No.: 27876

SAS No.:

SDG No.: EDCJ8

Lab Sample ID: 00030904

Date Received: 03/17/00

Lab File ID: 030904

Date Analyzed: 03/22/00

Purge Volume: 25.00 (ml)

Dilution Factor: 1.0

GC Column: RTX-502.2 ID: 0.530 (mm) Length: 105 (m)

Number TICs found: 0

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC.<br>(ug/L) | Q |
|------------|---------------|----|----------------------|---|
|            |               |    |                      |   |

LOW CONC WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

EDCK2

Lab Name: ENVIROSYSTEMS

Contract 68-D7-0005

Lab Code: ENVSYS

Case No.: 27876

SAS No.

SDG No.: EDCJ8

Lab Sample ID: 00030905

Date Received: 03/17/00

Lab File ID: 030905

Date Analyzed: 03/22/00

Purge Volume: 25.00 (ml)

Dilution Factor: 1.0

GC Column: RTX-502.2 ID: 0.530 (mm) Length: 105 (m)

| CAS NO.    | COMPOUND                      | CONCENTRATION<br>(ug/L) | Q |
|------------|-------------------------------|-------------------------|---|
| 74-87-3    | Chloromethane                 | 1                       | U |
| 74-83-9    | Bromomethane                  | 1                       | U |
| 75-01-4    | Vinyl chloride                | 0.7                     | J |
| 75-00-3    | Chloroethane                  | 1                       | U |
| 75-09-2    | Methylene chloride            | 2                       | U |
| 67-64-1    | Acetone                       | 5                       | U |
| 75-15-0    | Carbon disulfide              | 1                       | U |
| 75-35-4    | 1,1-Dichloroethene            | 1                       | U |
| 75-34-3    | <b>1,1-Dichloroethane</b>     | <b>2</b>                |   |
| 156-59-2   | <b>cis-1,2-Dichloroethene</b> | <b>1</b>                |   |
| 156-60-5   | trans-1,2-Dichloroethene      | 1                       | U |
| 67-66-3    | Chloroform                    | 1                       | U |
| 107-06-2   | 1,2-Dichloroethane            | 1                       | U |
| 78-93-3    | 2-Butanone                    | 5                       | U |
| 74-97-5    | Bromochloromethane            | 1                       | U |
| 71-55-6    | 1,1,1-Trichloroethane         | 1                       | U |
| 56-23-5    | Carbon tetrachloride          | 1                       | U |
| 75-27-4    | Bromodichloromethane          | 1                       | U |
| 78-87-5    | 1,2-Dichloropropane           | 1                       | U |
| 10061-01-5 | cis-1,3-Dichloropropene       | 1                       | U |
| 79-01-6    | Trichloroethene               | 1                       | U |
| 124-48-1   | Dibromochloromethane          | 1                       | U |
| 79-00-5    | 1,1,2-Trichloroethane         | 1                       | U |
| 71-43-2    | Benzene                       | 1                       | U |
| 10061-02-6 | trans-1,3-Dichloropropene     | 1                       | U |
| 75-25-2    | Bromoform                     | 1                       | U |
| 108-10-1   | 4-Methyl-2-pentanone          | 5                       | U |
| 591-78-6   | 2-Hexanone                    | 5                       | U |
| 127-18-4   | Tetrachloroethene             | 1                       | U |
| 79-34-5    | 1,1,2,2-Tetrachloroethane     | 1                       | U |
| 106-93-4   | 1,2-Dibromoethane             | 1                       | U |
| 108-88-3   | Toluene                       | 1                       | U |
| 108-90-7   | Chlorobenzene                 | 1                       | U |
| 100-41-4   | Ethylbenzene                  | 1                       | U |
| 100-42-5   | Styrene                       | 1                       | U |
| 1330-20-7  | Xylenes (total)               | 1                       | U |
| 541-73-1   | 1,3-Dichlorobenzene           | 1                       | U |
| 106-46-7   | 1,4-Dichlorobenzene           | 1                       | U |
| 95-50-1    | 1,2-Dichlorobenzene           | 1                       | U |
| 96-12-8    | 1,2-Dibromo-3-chloropropane   | 1                       | U |
| 120-82-1   | 1,2,4-Trichlorobenzene        | 1                       | U |

1LGE  
 LDW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO

EDCK2

Lab Name: ENVIROSYSTEMS Contract: 68-D7-0005

Lab Code: ENVSYS Case No.: 27876 SAS No.: SDG No.: EDCJB

Lab Sample ID: 00030905 Date Received: 03/17/00

Lab File ID: 030905 Date Analyzed: 03/22/00

Purge Volume: 25.00 (ml) Dilution Factor: 1.0

GC Column: RTX-502.2 ID: 0.530 (mm) Length: 105 (m)

Number TICs found: 2

| CAS NUMBER | COMPOUND NAME            | RT   | EST. CONC.<br>(ug/L) | Q  |
|------------|--------------------------|------|----------------------|----|
| 1. 75-43-4 | METHANE, DICHLOROFLUORO- | 6.20 | 3                    | JN |
| 2.         | UNKNOWN                  | 7.27 | 4                    | J  |

100A  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDCK3

Lab Name: ENVIROSYSTEMS

Contract: 68-D7-0005

Lab Code: ENVSYS

Case No.: 27876

SAS No.:

SDG No.: EDCJB

Lab Sample ID: 00030906

Date Received: 03/17/00

Lab File ID: 030906

Date Analyzed: 03/22/00

Purge Volume: 25.00 (ml)

Dilution Factor: 1.0

GC Column: RTX-502.2 ID: 0.530 (mm) Length: 105 (m)

| CAS NO.    | COMPOUND                    | CONCENTRATION<br>(ug/L) | Q |
|------------|-----------------------------|-------------------------|---|
|            | 54750                       |                         |   |
| 74-87-3    | Chloromethane               | 1                       | U |
| 74-83-9    | Bromomethane                | 1                       | U |
| 75-01-4    | Vinyl chloride              | 1                       | U |
| 75-00-3    | Chloroethane                | 1                       | U |
| 75-09-2    | Methylene chloride          | 2                       | U |
| 67-64-1    | Acetone                     | 5                       | U |
| 75-15-0    | Carbon disulfide            | 1                       | U |
| 75-35-4    | 1,1-Dichloroethene          | 1                       | U |
| 75-34-3    | 1,1-Dichloroethane          | 1                       | U |
| 156-59-2   | cis-1,2-Dichloroethene      | 1                       | U |
| 156-60-5   | trans-1,2-Dichloroethene    | 1                       | U |
| 67-66-3    | Chloroform                  | 1                       | U |
| 107-06-2   | 1,2-Dichloroethane          | 1                       | U |
| 78-93-3    | 2-Butanone                  | 5                       | U |
| 74-97-5    | Bromochloromethane          | 1                       | U |
| 71-55-6    | 1,1,1-Trichloroethane       | 1                       | U |
| 56-23-5    | Carbon tetrachloride        | 1                       | U |
| 75-27-4    | Bromodichloromethane        | 1                       | U |
| 78-87-5    | 1,2-Dichloropropane         | 1                       | U |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1                       | U |
| 79-01-6    | Trichloroethene             | 1                       | U |
| 124-48-1   | Dibromochloromethane        | 1                       | U |
| 79-00-5    | 1,1,2-Trichloroethane       | 1                       | U |
| 71-43-2    | Benzene                     | 1                       | U |
| 10061-02-6 | trans-1,3-Dichloropropene   | 1                       | U |
| 75-25-2    | Bromoform                   | 1                       | U |
| 108-10-1   | 4-Methyl-2-pentanone        | 5                       | U |
| 591-78-6   | 2-Hexanone                  | 5                       | U |
| 127-18-4   | Tetrachloroethene           | 1                       | U |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 1                       | U |
| 106-93-4   | 1,2-Dibromoethane           | 1                       | U |
| 108-88-3   | Toluene                     | 1                       | U |
| 108-90-7   | Chlorobenzene               | 1                       | U |
| 100-41-4   | Ethylbenzene                | 1                       | U |
| 100-42-5   | Styrene                     | 1                       | U |
| 1330-20-7  | Xylenes (total)             | 1                       | U |
| 541-73-1   | 1,3-Dichlorobenzene         | 1                       | U |
| 106-46-7   | 1,4-Dichlorobenzene         | 1                       | U |
| 95-50-1    | 1,2-Dichlorobenzene         | 1                       | U |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | 1                       | U |
| 120-82-1   | 1,2,4-Trichlorobenzene      | 1                       | U |

1LOE  
LOW CONC WATER VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO

EDCK3

Lab Name: ENVIROSYSTEMS

Contract: 68-D7-0005

Lab Code: ENVSYS

Case No.: 27876

SAS No.:

SDG No.: EDCJ8

Lab Sample ID: 00030906

Date Received: 03/17/00

Lab File ID: 030906

Date Analyzed: 03/22/00

Purge Volume: 25.00 (ml)

Dilution Factor: 1.0

GC Column: RTX-502.2 ID: 0.530 (mm) Length: 105 (m)

Number TICs found: 0

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC.<br>(ug/L) | Q |
|------------|---------------|----|----------------------|---|
|            |               |    |                      |   |

100A  
 LOW CONC WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

EDCK4

Lab Name: ENVIROSYSTEMS

Contract 68-D7-0005

Lab Code: ENVSYS

Case No. 27876

SAS No :

SDG No EDCJ8

Lab Sample ID: 00030907

Date Received: 03/17/00

Lab File ID: 030907

Date Analyzed: 03/22/00

Purge Volume: 25.00 (ml)

Dilution Factor: 1.0

GC Column: RTX-502.2 ID: 0.530 (mm) Length: 105 (m)

CAS NO. COMPOUND *27876* CONCENTRATION (ug/L) Q

|            |                             |     |   |
|------------|-----------------------------|-----|---|
| 74-87-3    | Chloromethane               | 1   | U |
| 74-83-9    | Bromomethane                | 1   | U |
| 75-01-4    | Vinyl chloride              | 1   | U |
| 75-00-3    | Chloroethane                | 1   | U |
| 75-09-2    | Methylene chloride          | 2   | U |
| 67-64-1    | Acetone                     | 5   | U |
| 75-15-0    | Carbon disulfide            | 1   | U |
| 75-35-4    | 1,1-Dichloroethene          | 1   | U |
| 75-34-3    | 1,1-Dichloroethane          | 0.5 | U |
| 156-59-2   | cis-1,2-Dichloroethene      | 0.6 | U |
| 156-60-5   | trans-1,2-Dichloroethene    | 1   | U |
| 67-66-3    | Chloroform                  | 0.4 | U |
| 107-06-2   | 1,2-Dichloroethane          | 1   | U |
| 78-93-3    | 2-Butanone                  | 5   | U |
| 74-97-5    | Bromochloromethane          | 1   | U |
| 71-55-6    | 1,1,1-Trichloroethane       | 1   | U |
| 56-23-5    | Carbon tetrachloride        | 1   | U |
| 75-27-4    | Bromodichloromethane        | 1   | U |
| 78-87-5    | 1,2-Dichloropropane         | 1   | U |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1   | U |
| 79-01-6    | Trichloroethene             | 1   | U |
| 124-48-1   | Dibromochloromethane        | 1   | U |
| 79-00-5    | 1,1,2-Trichloroethane       | 1   | U |
| 71-43-2    | Benzene                     | 1   | U |
| 10061-02-6 | trans-1,3-Dichloropropene   | 1   | U |
| 75-25-2    | Bromoform                   | 1   | U |
| 108-10-1   | 4-Methyl-2-pentanone        | 5   | U |
| 591-78-6   | 2-Hexanone                  | 5   | U |
| 127-18-4   | Tetrachloroethene           | 1   | U |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 1   | U |
| 106-93-4   | 1,2-Dibromoethane           | 1   | U |
| 108-88-3   | Toluene                     | 1   | U |
| 108-90-7   | Chlorobenzene               | 1   | U |
| 100-41-4   | Ethylbenzene                | 1   | U |
| 100-42-5   | Styrene                     | 1   | U |
| 1330-20-7  | Xylenes (total)             | 1   | U |
| 541-73-1   | 1,3-Dichlorobenzene         | 1   | U |
| 106-46-7   | 1,4-Dichlorobenzene         | 1   | U |
| 95-50-1    | 1,2-Dichlorobenzene         | 1   | U |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | 1   | U |
| 120-82-1   | 1,2,4-Trichlorobenzene      | 1   | U |

1LCE  
LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO

EDCK4

Lab Name: ENVIROSYSTEMS

Contract: 68-D7-0005

Lab Code: ENVSYS

Case No.: 27876

SAS No.:

SDG No.: EDCJ8

Lab Sample ID: 00030907

Date Received: 03/17/00

Lab File ID: 030907

Date Analyzed: 03/22/00

Purge Volume: 25.00 (ml)

Dilution Factor: 1.0

GC Column: RTX-502.2 ID: 0.530 (mm) Length: 105 (m)

Number TICs found: 0

| CAS NUMBER | COMPOUND NAME | RT    | EST. CONC.<br>(ug/L) | Q     |
|------------|---------------|-------|----------------------|-------|
| =====      | =====         | ===== | =====                | ===== |
|            |               |       |                      |       |

100A  
 LOW CONC WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDCK5

Lab Name: ENVIROSYSTEMS

Contract 68-D7-0005

Lab Code: ENVSYS

Case No. 27876

SAS No.:

SDG No : EDCJ8

Lab Sample ID: 00030908

Date Received: 03/17/00

Lab File ID: 030908

Date Analyzed: 03/22/00

Purge Volume: 25.00 (ml)

Dilution Factor: 1.0

GC Column: RTX-502.2 ID: 0.530 (mm) Length: 105 (m)

| CAS NO.    | COMPOUND                    | CONCENTRATION<br>(ug/L) | Q        |
|------------|-----------------------------|-------------------------|----------|
| 74-87-3    | Chloromethane               | 1                       | U        |
| 74-83-9    | Bromomethane                | 1                       | U        |
| 75-01-4    | Vinyl chloride              | 1                       | U        |
| 75-00-3    | Chloroethane                | 1                       | U        |
| 75-09-2    | Methylene chloride          | 2                       | U        |
| 67-64-1    | Acetone                     | 5                       | U        |
| 75-15-0    | Carbon disulfide            | 1                       | U        |
| 75-35-4    | 1,1-Dichloroethene          | 1                       | U        |
| 75-34-3    | <b>1,1-Dichloroethane</b>   | <b>2</b>                | <b>U</b> |
| 156-59-2   | cis-1,2-Dichloroethene      | 0.8                     | J        |
| 156-60-5   | trans-1,2-Dichloroethene    | 1                       | U        |
| 67-66-3    | Chloroform                  | 1                       | U        |
| 107-06-2   | 1,2-Dichloroethane          | 1                       | U        |
| 78-93-3    | 2-Butanone                  | 5                       | U        |
| 74-97-5    | Bromochloromethane          | 1                       | U        |
| 71-55-6    | 1,1,1-Trichloroethane       | 1                       | U        |
| 56-23-5    | Carbon tetrachloride        | 1                       | U        |
| 75-27-4    | Bromodichloromethane        | 1                       | U        |
| 78-87-5    | 1,2-Dichloropropane         | 1                       | U        |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1                       | U        |
| 79-01-6    | Trichloroethene             | 1                       | U        |
| 124-48-1   | Dibromochloromethane        | 1                       | U        |
| 79-00-5    | 1,1,2-Trichloroethane       | 1                       | U        |
| 71-43-2    | Benzene                     | 1                       | U        |
| 10061-02-6 | trans-1,3-Dichloropropene   | 1                       | U        |
| 75-25-2    | Bromoform                   | 1                       | U        |
| 108-10-1   | 4-Methyl-2-pentanone        | 5                       | U        |
| 591-78-6   | 2-Hexanone                  | 5                       | U        |
| 127-18-4   | Tetrachloroethene           | 1                       | U        |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 1                       | U        |
| 106-93-4   | 1,2-Dibromoethane           | 1                       | U        |
| 108-88-3   | Toluene                     | 1                       | U        |
| 108-90-7   | Chlorobenzene               | 1                       | U        |
| 100-41-4   | Ethylbenzene                | 1                       | U        |
| 100-42-5   | Styrene                     | 1                       | U        |
| 1330-20-7  | Xylenes (total)             | 1                       | U        |
| 541-73-1   | 1,3-Dichlorobenzene         | 1                       | U        |
| 106-46-7   | 1,4-Dichlorobenzene         | 1                       | U        |
| 95-50-1    | 1,2-Dichlorobenzene         | 1                       | U        |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | 1                       | U        |
| 120-82-1   | 1,2,4-Trichlorobenzene      | 1                       | U        |

110E  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EDCK5

Lab Name: ENVIROSYSTEMS

Contract 68-D7-0005

Lab Code: ENVSYS

Case No.: 27876

SAS No.:

SDG No.: EDCJ8

Lab Sample ID: 00030908

Date Received: 03/17/00

Lab File ID: 030908

Date Analyzed: 03/22/00

Purge Volume: 25.00 (ml)

Dilution Factor: 1.0

GC Column: RTX-502.2 ID: 0.530 (mm) Length: 105 (m)

Number TICs found: 2

27876

| CAS NUMBER | COMPOUND NAME           | RT   | EST. CONC.<br>(ug/L) | Q  |
|------------|-------------------------|------|----------------------|----|
| 1. 75-43-4 | METHANE, DICHLOROFLUORO | 6.22 | 3                    | JN |
| 2.         | UNKNOWN                 | 7.30 | 4                    | J  |

100A  
 LOW CONC WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

EDCK6

Lab Name: ENVIROSYSTEMS

Contract: 68-D7-0005

Lab Code: ENVSYS

Case No.: 27876

SAS No.:

SDG No.: EDCJ8

Lab Sample ID: 00030909

Date Received: 03/17/00

Lab File ID: 030909

Date Analyzed: 03/22/00

Purge Volume: 25.00 (ml)

Dilution Factor: 1.0

GC Column: RTX-502.2 ID: 0.530 (mm) Length: 105 (m)

| CAS NO.    | COMPOUND                    | CONCENTRATION<br>(ug/L) | Q |
|------------|-----------------------------|-------------------------|---|
| 74-87-3    | Chloromethane               | 1                       | U |
| 74-83-9    | Bromomethane                | 1                       | U |
| 75-01-4    | Vinyl chloride              | 1                       | U |
| 75-00-3    | Chloroethane                | 1                       | U |
| 75-09-2    | Methylene chloride          | 2                       | U |
| 67-64-1    | Acetone                     | 5                       | U |
| 75-15-0    | Carbon disulfide            | 1                       | U |
| 75-35-4    | 1,1-Dichloroethene          | 1                       | U |
| 75-34-3    | 1,1-Dichloroethane          | 1                       | U |
| 156-59-2   | cis-1,2-Dichloroethene      | 1                       | U |
| 156-60-5   | trans-1,2-Dichloroethene    | 1                       | U |
| 67-66-3    | Chloroform                  | 1                       | U |
| 107-06-2   | 1,2-Dichloroethane          | 1                       | U |
| 78-93-3    | 2-Butanone                  | 5                       | U |
| 74-97-5    | Bromochloromethane          | 1                       | U |
| 71-55-6    | 1,1,1-Trichloroethane       | 1                       | U |
| 56-23-5    | Carbon tetrachloride        | 1                       | U |
| 75-27-4    | Bromodichloromethane        | 1                       | U |
| 78-87-5    | 1,2-Dichloropropane         | 1                       | U |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1                       | U |
| 79-01-6    | Trichloroethene             | 1                       | U |
| 124-48-1   | Dibromochloromethane        | 1                       | U |
| 79-00-5    | 1,1,2-Trichloroethane       | 1                       | U |
| 71-43-2    | Benzene                     | 1                       | U |
| 10061-02-6 | trans-1,3-Dichloropropene   | 1                       | U |
| 75-25-2    | Bromoform                   | 1                       | U |
| 108-10-1   | 4-Methyl-2-pentanone        | 5                       | U |
| 591-78-6   | 2-Hexanone                  | 5                       | U |
| 127-18-4   | Tetrachloroethene           | 1                       | U |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 1                       | U |
| 106-93-4   | 1,2-Dibromoethane           | 1                       | U |
| 108-88-3   | Toluene                     | 1                       | U |
| 108-90-7   | Chlorobenzene               | 1                       | U |
| 100-41-4   | Ethylbenzene                | 1                       | U |
| 100-42-5   | Styrene                     | 1                       | U |
| 1330-20-7  | Xylenes (total)             | 1                       | U |
| 541-73-1   | 1,3-Dichlorobenzene         | 1                       | U |
| 106-46-7   | 1,4-Dichlorobenzene         | 1                       | U |
| 95-50-1    | 1,2-Dichlorobenzene         | 1                       | U |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | 1                       | U |
| 120-82-1   | 1,2,4-Trichlorobenzene      | 1                       | U |

100E  
LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO

EDCK6

Lab Name: ENVIROSYSTEMS

Contract: 68-D7-0005

Lab Code: ENVSYS

Case No.: 27876

SAS No.:

SDG No.: EDCJB

Lab Sample ID: 00030909

Date Received: 03/17/00

Lab File ID: 030909

Date Analyzed: 03/22/00

Purge Volume: 25.00 (ml)

Dilution Factor: 1.0

GC Column: RTX-502.2 ID: 0.530 (mm) Length: 105 (m)

Number TICs found: 0

| CAS NUMBER | COMPOUND NAME | RT    | EST. CONC.<br>(ug/L) | Q     |
|------------|---------------|-------|----------------------|-------|
| =====      | =====         | ===== | =====                | ===== |
|            |               |       |                      |       |

LOW CONC WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

EDCKS

Lab Name: ENVIROSYSTEMS

Contract: 68-D7-0005

Lab Code: ENVSYS

Case No.: 27876

SAS No.:

SDG No.: EDCJB

Lab Sample ID: 00030923

Date Received: 03/18/00

Lab File ID: 030923

Date Analyzed: 03/23/00

Purge Volume: 25.00 (ml)

Dilution Factor: 1.0

GC Column: RTX-502.2 ID: 0.530 (mm) Length: 105 (m)

| CAS NO.    | COMPOUND                    | CONCENTRATION<br>(ug/L) | g |
|------------|-----------------------------|-------------------------|---|
| 74-87-3    | Chloromethane               | 1                       | U |
| 74-83-9    | Bromomethane                | 1                       | U |
| 75-01-4    | Vinyl chloride              | 0.9                     | J |
| 75-00-3    | Chloroethane                | 1                       | U |
| 75-09-2    | Methylene chloride          | 2                       | U |
| 67-64-1    | Acetone                     | 5                       | U |
| 75-15-0    | Carbon disulfide            | 1                       | U |
| 75-35-4    | 1,1-Dichloroethene          | 1                       | U |
| 75-34-3    | 1,1-Dichloroethane          | 3                       | J |
| 156-59-2   | cis-1,2-Dichloroethene      | 2                       | J |
| 156-60-5   | trans-1,2-Dichloroethene    | 1                       | U |
| 67-66-3    | Chloroform                  | 1                       | U |
| 107-06-2   | 1,2-Dichloroethane          | 0.6                     | J |
| 78-93-3    | 2-Butanone                  | 5                       | U |
| 74-97-5    | Bromochloromethane          | 1                       | U |
| 71-55-6    | 1,1,1-Trichloroethane       | 1                       | U |
| 56-23-5    | Carbon tetrachloride        | 1                       | U |
| 75-27-4    | Bromodichloromethane        | 1                       | U |
| 78-87-5    | 1,2-Dichloropropane         | 10                      | J |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1                       | U |
| 79-01-6    | Trichloroethene             | 1                       | U |
| 124-48-1   | Dibromochloromethane        | 1                       | U |
| 79-00-5    | 1,1,2-Trichloroethane       | 1                       | U |
| 71-43-2    | Benzene                     | 0.4                     | J |
| 10061-02-6 | trans-1,3-Dichloropropene   | 1                       | U |
| 75-25-2    | Bromoform                   | 1                       | U |
| 108-10-1   | 4-Methyl-2-pentanone        | 5                       | U |
| 591-78-6   | 2-Hexanone                  | 5                       | U |
| 127-18-4   | Tetrachloroethene           | 1                       | U |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 1                       | U |
| 106-93-4   | 1,2-Dibromoethane           | 1                       | U |
| 108-88-3   | Toluene                     | 1                       | U |
| 108-90-7   | Chlorobenzene               | 1                       | U |
| 100-41-4   | Ethylbenzene                | 1                       | U |
| 100-42-5   | Styrene                     | 1                       | U |
| 1330-20-7  | Xylenes (total)             | 1                       | U |
| 541-73-1   | 1,3-Dichlorobenzene         | 1                       | U |
| 106-46-7   | 1,4-Dichlorobenzene         | 1                       | U |
| 95-50-1    | 1,2-Dichlorobenzene         | 1                       | U |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | 1                       | U |
| 120-82-1   | 1,2,4-Trichlorobenzene      | 1                       | U |

111E  
 LOW CONC WATER VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO

EDCK8

Lab Name: ENVIROSYSTEMS Contract: 68-D7-0005

Lab Code: ENVSYS Case No.: 27876 SAS No.: SDG No.: EDCJB

Lab Sample ID: 00030923 Date Received: 03/18/00

Lab File ID: 030923 Date Analyzed: 03/23/00

Purge Volume: 25.00 (ml) Dilution Factor: 1.0

GC Column: RTX-502.2 ID: 0.530 (mm) Length: 105 (m)

Number TICs found: 1

| CAS NUMBER | COMPOUND NAME | RT   | EST. CONC.<br>(ug/L) | Q |
|------------|---------------|------|----------------------|---|
| 1.         | UNKNOWN       | 7.25 | 5                    | J |

1LCA  
 LOW CONC WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

EDCK9

Lab Name: ENVIROSYSTEMS

Contract 68-D7-0005

Lab Code: ENVSYS

Case No 27876

SAS No.

SDG No. EDCJ8

Lab Sample ID: 00030910

Date Received: 03/17/00

Lab File ID: 030910

Date Analyzed: 03/22/00

Purge Volume: 25.00 (ml)

Dilution Factor: 1.0

GC Column: RTX-502.2 ID: 0.530 (mm) Length: 105 (m)

| CAS NO.    | COMPOUND                    | CONCENTRATION<br>(ug/L) | Q |
|------------|-----------------------------|-------------------------|---|
| 74-87-3    | Chloromethane               | 1                       | U |
| 74-83-9    | Bromomethane                | 1                       | U |
| 75-01-4    | Vinyl chloride              | 1                       | U |
| 75-00-3    | Chloroethane                | 1                       | U |
| 75-09-2    | Methylene chloride          | 2                       | U |
| 67-64-1    | Acetone                     | 5                       | U |
| 75-15-0    | Carbon disulfide            | 1                       | U |
| 75-35-4    | 1,1-Dichloroethene          | 1                       | U |
| 75-34-3    | 1,1-Dichloroethane          | 1                       | U |
| 156-59-2   | cis-1,2-Dichloroethene      | 1                       | U |
| 156-60-5   | trans-1,2-Dichloroethene    | 1                       | U |
| 67-66-3    | Chloroform                  | 1                       | U |
| 107-06-2   | 1,2-Dichloroethane          | 1                       | U |
| 78-93-3    | 2-Butanone                  | 5                       | U |
| 74-97-5    | Bromochloromethane          | 1                       | U |
| 71-55-6    | 1,1,1-Trichloroethane       | 1                       | U |
| 56-23-5    | Carbon tetrachloride        | 1                       | U |
| 75-27-4    | Bromodichloromethane        | 1                       | U |
| 78-87-5    | 1,2-Dichloropropane         | 1                       | U |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1                       | U |
| 79-01-6    | Trichloroethene             | 1                       | U |
| 124-48-1   | Dibromochloromethane        | 1                       | U |
| 79-00-5    | 1,1,2-Trichloroethane       | 1                       | U |
| 71-43-2    | Benzene                     | 1                       | U |
| 10061-02-6 | trans-1,3-Dichloropropene   | 1                       | U |
| 75-25-2    | Bromoform                   | 1                       | U |
| 108-10-1   | 4-Methyl-2-pentanone        | 5                       | U |
| 591-78-6   | 2-Hexanone                  | 5                       | U |
| 127-18-4   | Tetrachloroethene           | 1                       | U |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 1                       | U |
| 106-93-4   | 1,2-Dibromoethane           | 1                       | U |
| 108-88-3   | Toluene                     | 1                       | U |
| 108-90-7   | Chlorobenzene               | 1                       | U |
| 100-41-4   | Ethylbenzene                | 1                       | U |
| 100-42-5   | Styrene                     | 1                       | U |
| 1330-20-7  | Xylenes (total)             | 1                       | U |
| 541-73-1   | 1,3-Dichlorobenzene         | 1                       | U |
| 106-46-7   | 1,4-Dichlorobenzene         | 1                       | U |
| 95-50-1    | 1,2-Dichlorobenzene         | 1                       | U |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | 1                       | U |
| 120-82-1   | 1,2,4-Trichlorobenzene      | 1                       | U |

ILCA  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDCLO

Lab Name: ENVIROSYSTEMS

Contract 68-D7-0005

Lab Code: ENVSYS

Case No. 27876

SAS No.:

SDG No.: EDCJB

Lab Sample ID: 00030911

Date Received: 03/17/00

Lab File ID: 030911

Date Analyzed: 03/22/00

Purge Volume: 25.00 (ml)

Dilution Factor: 1.0

GC Column: RTX-502.2 ID: 0.530 (mm) Length: 105 (m)

| CAS NO.    | COMPOUND                    | CONCENTRATION<br>(ug/L) | Q |
|------------|-----------------------------|-------------------------|---|
| 74-87-3    | Chloromethane               | 1                       | U |
| 74-83-9    | Bromomethane                | 1                       | U |
| 75-01-4    | Vinyl chloride              | 1                       | U |
| 75-00-3    | Chloroethane                | 1                       | U |
| 75-09-2    | Methylene chloride          | 2                       | U |
| 67-64-1    | Acetone                     | 5                       | U |
| 75-15-0    | Carbon disulfide            | 1                       | U |
| 75-35-4    | 1,1-Dichloroethene          | 1                       | U |
| 75-34-3    | 1,1-Dichloroethane          | 1                       | U |
| 156-59-2   | cis-1,2-Dichloroethene      | 1                       | U |
| 156-60-5   | trans-1,2-Dichloroethene    | 1                       | U |
| 67-66-3    | Chloroform                  | 1                       | U |
| 107-06-2   | 1,2-Dichloroethane          | 0.7                     | J |
| 78-93-3    | 2-Butanone                  | 5                       | U |
| 74-97-5    | Bromochloromethane          | 1                       | U |
| 71-55-6    | 1,1,1-Trichloroethane       | 1                       | U |
| 56-23-5    | Carbon tetrachloride        | 1                       | U |
| 75-27-4    | Bromodichloromethane        | 1                       | U |
| 78-87-5    | 1,2-Dichloropropane         | 1                       | U |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1                       | U |
| 79-01-6    | Trichloroethene             | 1                       | U |
| 124-48-1   | Dibromochloromethane        | 1                       | U |
| 79-00-5    | 1,1,2-Trichloroethane       | 1                       | U |
| 71-43-2    | Benzene                     | 1                       | U |
| 10061-02-6 | trans-1,3-Dichloropropene   | 1                       | U |
| 75-25-2    | Bromoform                   | 1                       | U |
| 108-10-1   | 4-Methyl-2-pentanone        | 5                       | U |
| 591-78-6   | 2-Hexanone                  | 5                       | U |
| 127-18-4   | Tetrachloroethene           | 1                       | U |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 1                       | U |
| 106-93-4   | 1,2-Dibromoethane           | 1                       | U |
| 108-88-3   | Toluene                     | 1                       | U |
| 108-90-7   | Chlorobenzene               | 1                       | U |
| 100-41-4   | Ethylbenzene                | 1                       | U |
| 100-42-5   | Styrene                     | 1                       | U |
| 1330-20-7  | Xylenes (total)             | 1                       | U |
| 541-73-1   | 1,3-Dichlorobenzene         | 1                       | U |
| 106-46-7   | 1,4-Dichlorobenzene         | 1                       | U |
| 95-50-1    | 1,2-Dichlorobenzene         | 1                       | U |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | 1                       | U |
| 120-82-1   | 1,2,4-Trichlorobenzene      | 1                       | U |

EPC  
 LOW CONC WATER VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO

EDCLO

Lab Name: ENVIROSYSTEMS

Contract: 68-D7-0005

Lab Code: ENVSYS

Case No.: 27876

SAS No.:

SDG No.: EDCJ8

Lab Sample ID: 00030911

Date Received: 03/17/00

Lab File ID: 030911

Date Analyzed: 03/22/00

Runge Volume: 25.00 (ml)

Dilution Factor: 1.0

GC Column: RTX-502.2 ID: 0.530 (mm) Length: 105 (m)

Number TICs found: 0

| CAS NUMBER | COMPOUND NAME | RT    | EST. CONC.<br>(ug/L) | Q     |
|------------|---------------|-------|----------------------|-------|
| =====      | =====         | ===== | =====                | ===== |

1LCA  
 LOW CONC WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

EDCL1

Lab Name: ENVIROSYSTEMS

Contract 68-D7-0005

Lab Code: ENVSYS

Case No.: 27876

SAS No.:

SDG No.: EDCJ8

Lab Sample ID: 00030912

Date Received: 03/17/00

Lab File ID: 030912

Date Analyzed: 03/22/00

Purge Volume: 25.00 (ml)

Dilution Factor: 1.0

GC Column: RTX-502.2 ID: 0.530 (mm) Length: 105 (m)

| CAS NO.    | COMPOUND                     | CONCENTRATION<br>(ug/L) | Q |
|------------|------------------------------|-------------------------|---|
| 74-87-3    | Chloromethane                | 1                       | U |
| 74-83-9    | Bromomethane                 | 1                       | U |
| 75-01-4    | Vinyl chloride               | 1                       | U |
| 75-00-3    | Chloroethane                 | 1                       | U |
| 75-09-2    | Methylene chloride           | 2                       | U |
| 67-64-1    | Acetone                      | 5                       | U |
| 75-15-0    | Carbon disulfide             | 1                       | U |
| 75-35-4    | 1, 1-Dichloroethene          | 1                       | U |
| 75-34-3    | 1, 1-Dichloroethane          | 1                       | U |
| 156-59-2   | cis-1, 2-Dichloroethene      | 1                       | U |
| 156-60-5   | trans-1, 2-Dichloroethene    | 1                       | U |
| 67-66-3    | Chloroform                   | 1                       | U |
| 107-06-2   | 1, 2-Dichloroethane          | 1                       | U |
| 78-93-3    | 2-Butanone                   | 5                       | U |
| 74-97-5    | Bromochloromethane           | 1                       | U |
| 71-55-6    | 1, 1, 1-Trichloroethane      | 1                       | U |
| 56-23-5    | Carbon tetrachloride         | 1                       | U |
| 75-27-4    | Bromodichloromethane         | 1                       | U |
| 78-87-5    | 1, 2-Dichloropropane         | 1                       | U |
| 10061-01-5 | cis-1, 3-Dichloropropene     | 1                       | U |
| 79-01-6    | Trichloroethene              | 1                       | U |
| 124-48-1   | Dibromochloromethane         | 1                       | U |
| 79-00-5    | 1, 1, 2-Trichloroethane      | 1                       | U |
| 71-43-2    | Benzene                      | 1                       | U |
| 10061-02-6 | trans-1, 3-Dichloropropene   | 1                       | U |
| 75-25-2    | Bromoform                    | 1                       | U |
| 108-10-1   | 4-Methyl-2-pentanone         | 5                       | U |
| 591-78-6   | 2-Hexanone                   | 5                       | U |
| 127-18-4   | Tetrachloroethene            | 1                       | U |
| 79-34-5    | 1, 1, 2, 2-Tetrachloroethane | 1                       | U |
| 106-93-4   | 1, 2-Dibromoethane           | 1                       | U |
| 108-88-3   | Toluene                      | 1                       | U |
| 108-90-7   | Chlorobenzene                | 1                       | U |
| 100-41-4   | Ethylbenzene                 | 1                       | U |
| 100-42-5   | Styrene                      | 1                       | U |
| 1330-20-7  | Xylenes (total)              | 1                       | U |
| 541-73-1   | 1, 3-Dichlorobenzene         | 1                       | U |
| 106-46-7   | 1, 4-Dichlorobenzene         | 1                       | U |
| 95-50-1    | 1, 2-Dichlorobenzene         | 1                       | U |
| 96-12-8    | 1, 2-Dibromo-3-chloropropane | 1                       | U |
| 120-82-1   | 1, 2, 4-Trichlorobenzene     | 1                       | U |

1LGE  
LOW CONC WATER VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO

EDCL1

Lab Name: ENVIROSYSTEMS

Contract: SB-D7-0005

Lab Code: ENVSYS

Case No.: 27876

SAS No.:

SDG No.: EDCJB

Lab Sample ID: 00030912

Date Received: 03/17/00

Lab File ID: 030912

Date Analyzed: 03/22/00

Purge Volume: 25.00 (ml)

Dilution Factor: 1.0

GC Column: RTX-502.2 ID: 0.530 (mm) Length: 105 (m)

Number TICs found: 0

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC.<br>(ug/L) | Q |
|------------|---------------|----|----------------------|---|
|            |               |    |                      |   |

110A  
 LOW CONC WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

EDCL2

as Name: ENVIRDSYSTEMS

Contract: 68-D7-0005

Lab Code: ENVSYS Case No: 27876 SAS No: SDG No: EDCJ8

Lab Sample ID: 00030913 Date Received: 03/17/00

Lab File ID: 030913 Date Analyzed: 03/22/00

Purge Volume: 25.00 (ml) Dilution Factor: 1.0

GC Column: RTX-502.2 ID: 0.530 (mm) Length: 105 (m)

| CAS NO.    | COMPOUND                    | CONCENTRATION (ug/L) | Q |
|------------|-----------------------------|----------------------|---|
| 74-87-3    | Chloromethane               | 1                    | U |
| 74-83-9    | Bromomethane                | 1                    | U |
| 75-01-4    | Vinyl chloride              | 1                    | U |
| 75-00-3    | Chloroethane                | 1                    | U |
| 75-09-2    | Methylene chloride          | 2                    | U |
| 67-64-1    | Acetone                     | 5                    | U |
| 75-15-0    | Carbon disulfide            | 1                    | U |
| 75-35-4    | 1,1-Dichloroethene          | 1                    | U |
| 75-34-3    | 1,1-Dichloroethane          | 1                    | U |
| 156-59-2   | cis-1,2-Dichloroethene      | 1                    | U |
| 156-60-5   | trans-1,2-Dichloroethene    | 1                    | U |
| 67-66-3    | Chloroform                  | 1                    | U |
| 107-06-2   | 1,2-Dichloroethane          | 1                    | U |
| 78-93-3    | 2-Butanone                  | 5                    | U |
| 74-97-5    | Bromochloromethane          | 1                    | U |
| 71-55-6    | 1,1,1-Trichloroethane       | 1                    | U |
| 56-23-5    | Carbon tetrachloride        | 1                    | U |
| 75-27-4    | Bromodichloromethane        | 1                    | U |
| 78-87-5    | 1,2-Dichloropropane         | 1                    | U |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1                    | U |
| 79-01-6    | Trichloroethene             | 1                    | U |
| 124-48-1   | Dibromochloromethane        | 1                    | U |
| 79-00-5    | 1,1,2-Trichloroethane       | 1                    | U |
| 71-43-2    | Benzene                     | 1                    | U |
| 10061-02-6 | trans-1,3-Dichloropropene   | 1                    | U |
| 75-25-2    | Bromoform                   | 1                    | U |
| 108-10-1   | 4-Methyl-2-pentanone        | 5                    | U |
| 591-78-6   | 2-Hexanone                  | 5                    | U |
| 127-18-4   | Tetrachloroethene           | 1                    | U |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 1                    | U |
| 106-93-4   | 1,2-Dibromoethane           | 1                    | U |
| 108-88-3   | Toluene                     | 1                    | U |
| 108-90-7   | Chlorobenzene               | 1                    | U |
| 100-41-4   | Ethylbenzene                | 1                    | U |
| 100-42-5   | Styrene                     | 1                    | U |
| 1330-20-7  | Xylenes (total)             | 1                    | U |
| 541-73-1   | 1,3-Dichlorobenzene         | 1                    | U |
| 106-46-7   | 1,4-Dichlorobenzene         | 1                    | U |
| 95-50-1    | 1,2-Dichlorobenzene         | 1                    | U |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | 1                    | U |
| 120-82-1   | 1,2,4-Trichlorobenzene      | 1                    | U |

1LGE

EPA SAMPLE NO

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EDCL2

Lab Name: ENVIROSYSTEMS

Contract: 68-D7-0005

Lab Code: ENVSYS

Case No.: 27876

SAS No.:

SDG No.: EDCJ8

Lab Sample ID: 00030913

Date Received: 03/17/00

Lab File ID: 030913

Date Analyzed: 03/22/00

Purge Volume: 25.00 (ml)

Dilution Factor: 1.0

GC Column: RTX-502.2 ID: 0.530 (mm) Length: 105 (m)

Number TICs found: 0

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC.<br>(ug/L) | Q |
|------------|---------------|----|----------------------|---|
|            |               |    |                      |   |

1LCA  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

EDCL3

Lab Name: ENVIROSYSTEMS

Contract: 68-D7-0005

Lab Code: ENVSYS

Case No.: 27876

SAS No.:

SDG No.: EDCJ8

Lab Sample ID: 00030914

Date Received: 03/17/00

Lab File ID: 030914

Date Analyzed: 03/22/00

Purge Volume: 25.00 (ml)

Dilution Factor: 1.0

GC Column: RTX-502.2 ID: 0.530 (mm) Length: 105 (m)

| CAS NO.    | COMPOUND                    | CONCENTRATION<br>(ug/L) | Q |
|------------|-----------------------------|-------------------------|---|
| 74-87-3    | Chloromethane               | 1                       | U |
| 74-83-9    | Bromomethane                | 1                       | U |
| 75-01-4    | Vinyl chloride              | 1                       | U |
| 75-00-3    | Chloroethane                | 1                       | U |
| 75-09-2    | Methylene chloride          | 2                       | U |
| 67-64-1    | Acetone                     | 5                       | U |
| 75-15-0    | Carbon disulfide            | 1                       | U |
| 75-35-4    | 1,1-Dichloroethene          | 1                       | U |
| 75-34-3    | 1,1-Dichloroethane          | 1                       | U |
| 156-59-2   | cis-1,2-Dichloroethene      | 1                       | U |
| 156-60-5   | trans-1,2-Dichloroethene    | 1                       | U |
| 67-66-3    | Chloroform                  | 1                       | U |
| 107-06-2   | 1,2-Dichloroethane          | 1                       | U |
| 78-93-3    | 2-Butanone                  | 5                       | U |
| 74-97-5    | Bromochloromethane          | 1                       | U |
| 71-55-6    | 1,1,1-Trichloroethane       | 1                       | U |
| 56-23-5    | Carbon tetrachloride        | 1                       | U |
| 75-27-4    | Bromodichloromethane        | 1                       | U |
| 78-87-5    | 1,2-Dichloropropane         | 1                       | U |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1                       | U |
| 79-01-6    | Trichloroethene             | 1                       | U |
| 124-48-1   | Dibromochloromethane        | 1                       | U |
| 79-00-5    | 1,1,2-Trichloroethane       | 1                       | U |
| 71-43-2    | Benzene                     | 1                       | U |
| 10061-02-6 | trans-1,3-Dichloropropene   | 1                       | U |
| 75-25-2    | Bromoform                   | 1                       | U |
| 108-10-1   | 4-Methyl-2-pentanone        | 5                       | U |
| 591-78-6   | 2-Hexanone                  | 5                       | U |
| 127-18-4   | Tetrachloroethene           | 1                       | U |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 1                       | U |
| 106-93-4   | 1,2-Dibromoethane           | 1                       | U |
| 108-88-3   | Toluene                     | 1                       | U |
| 108-90-7   | Chlorobenzene               | 1                       | U |
| 100-41-4   | Ethylbenzene                | 1                       | U |
| 100-42-5   | Styrene                     | 1                       | U |
| 1330-20-7  | Xylenes (total)             | 1                       | U |
| 541-73-1   | 1,3-Dichlorobenzene         | 1                       | U |
| 106-46-7   | 1,4-Dichlorobenzene         | 1                       | U |
| 95-50-1    | 1,2-Dichlorobenzene         | 1                       | U |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | 1                       | U |
| 120-82-1   | 1,2,4-Trichlorobenzene      | 1                       | U |

1008  
 LOW CONC WATER VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO

EDCL4

Lab Name: ENVIROSYSTEMS      Contract: 68-D7-0005  
 Lab Code: ENVSYS      Case No.: 27876      SAS No.:      SDG No.: EDCJB  
 Lab Sample ID: 00030924      Date Received: 03/18/00  
 Lab File ID: 030924      Date Analyzed: 03/23/00  
 Purge Volume: 25.00 (ml)      Dilution Factor: 1.0  
 GC Column: RTX-502.2 ID: 0.530 (mm) Length: 105 (m)  
 Number TICs found: 0

| CAS NUMBER | COMPOUND NAME | RT | EST CONC.<br>(ug/L) | Q |
|------------|---------------|----|---------------------|---|
|            |               |    |                     |   |

100A  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

EDCM1

Lab Name: ENVIROSYSTEMS

Contract 68-D7-0005

Lab Code: ENVSYS

Case No.: 27876

SAS No.

SDG No.: EDCJ8

Lab Sample ID: 00030925

Date Received: 03/18/00

Lab File ID: 030925

Date Analyzed: 03/23/00

Purge Volume: 25.00 (ml)

Dilution Factor: 1 0

GC Column: RTX-502.2 ID: 0.530 (mm) Length: 105 (m)

| CAS NO.    | COMPOUND                         | CONCENTRATION<br>(ug/L) | Q |
|------------|----------------------------------|-------------------------|---|
| 74-87-3    | Chloromethane                    | 1                       | U |
| 74-83-9    | Bromomethane                     | 1                       | U |
| 75-01-4    | Vinyl chloride                   | 1                       | U |
| 75-00-3    | Chloroethane                     | 1                       | U |
| 75-09-2    | Methylene chloride               | 2                       | U |
| 67-64-1    | Acetone                          | 5                       | U |
| 75-15-0    | Carbon disulfide                 | 1                       | U |
| 75-35-4    | 1,1-Dichloroethene               | 1                       | U |
| 75-34-3    | 1,1-Dichloroethane               | 0.7                     | U |
| 156-59-2   | cis-1,2-Dichloroethene           | 0.7                     | U |
| 156-60-5   | trans-1,2-Dichloroethene         | 1                       | U |
| 67-66-3    | Chloroform                       | 1                       | U |
| 107-06-2   | 1,2-Dichloroethane               | 1                       | U |
| 78-93-3    | 2-Butanone                       | 5                       | U |
| 74-97-5    | Bromochloromethane               | 1                       | U |
| 71-55-6    | 1,1,1-Trichloroethane            | 1                       | U |
| 56-23-5    | Carbon tetrachloride             | 1                       | U |
| 75-27-4    | Bromodichloromethane             | 1                       | U |
| 78-87-5    | 1,2-Dichloropropane              | 1                       | U |
| 10061-01-5 | cis-1,3-Dichloropropene          | 1                       | U |
| 79-01-6    | <del>1,1,2-Trichloroethane</del> | 6                       | U |
| 124-48-1   | Dibromochloromethane             | 1                       | U |
| 79-00-5    | 1,1,2-Trichloroethane            | 1                       | U |
| 71-43-2    | Benzene                          | 1                       | U |
| 10061-02-6 | trans-1,3-Dichloropropene        | 1                       | U |
| 75-25-2    | Bromoform                        | 1                       | U |
| 108-10-1   | 4-Methyl-2-pentanone             | 5                       | U |
| 591-78-6   | 2-Hexanone                       | 5                       | U |
| 127-18-4   | Tetrachloroethene                | 1                       | U |
| 79-34-5    | 1,1,2,2-Tetrachloroethane        | 1                       | U |
| 106-93-4   | 1,2-Dibromoethane                | 1                       | U |
| 108-88-3   | Toluene                          | 1                       | U |
| 108-90-7   | Chlorobenzene                    | 1                       | U |
| 100-41-4   | Ethylbenzene                     | 1                       | U |
| 100-42-5   | Styrene                          | 1                       | U |
| 1330-20-7  | Xylenes (total)                  | 1                       | U |
| 541-73-1   | 1,3-Dichlorobenzene              | 1                       | U |
| 105-46-7   | 1,4-Dichlorobenzene              | 1                       | U |
| 95-50-1    | 1,2-Dichlorobenzene              | 1                       | U |
| 96-12-8    | 1,2-Dibromo-3-chloropropane      | 1                       | U |
| 120-82-1   | 1,2,4-Trichlorobenzene           | 1                       | U |

1002

EPA SAMPLE NO

LDW CONC WATER VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EDCMI

Lab Name: ENVIROSYSTEMS

Contract: 68-D7-0005

Lab Code: ENVSYS

Case No 27876

SAS No.:

SDG No.: EDCJB

Lab Sample ID: 00030925

Date Received 03/18/00

Lab File ID: 030925

Date Analyzed: 03/23/00

Purge Volume: 25.00 (ml)

Dilution Factor 10

GC Column: RTX-502.2 ID: 0.530 (mm) Length: 105 (m)

Number TICs found: 0

| CAS NUMBER | COMPOUND NAME | RT    | EST. CONC.<br>(ug/L) | Q     |
|------------|---------------|-------|----------------------|-------|
| =====      | =====         | ===== | =====                | ===== |
|            |               |       |                      |       |

1102  
 LOW CONC WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

EDCM2

Lab Name: ENVIROSYSTEMS

Contract 68-D7-0005

Lab Code: ENVSYS

Case No.: 27876

SAS No.:

SDG No: EDCJ8

Lab Sample ID: 00030926

Date Received: 03/18/00

Lab File ID: 030926

Date Analyzed: 03/23/00

Purge Volume: 25.00 (ml)

Dilution Factor: 1.0

GC Column: RTX-502.2 ID: 0.530 (mm) Length: 105 (m)

| CAS NO.    | COMPOUND                    | CONCENTRATION<br>(ug/L) | Q |
|------------|-----------------------------|-------------------------|---|
| 74-87-3    | Chloromethane               | 1                       | U |
| 74-83-9    | Bromomethane                | 1                       | U |
| 75-01-4    | Vinyl chloride              | 1                       | U |
| 75-00-3    | Chloroethane                | 1                       | U |
| 75-09-2    | Methylene chloride          | 2                       | U |
| 67-64-1    | Acetone                     | 5                       | U |
| 75-15-0    | Carbon disulfide            | 1                       | U |
| 75-35-4    | 1,1-Dichloroethene          | 1                       | U |
| 75-34-3    | 1,1-Dichloroethane          | 1                       | U |
| 156-59-2   | cis-1,2-Dichloroethene      | 1                       | U |
| 156-60-5   | trans-1,2-Dichloroethene    | 1                       | U |
| 67-66-3    | Chloroform                  | 1                       | U |
| 107-06-2   | 1,2-Dichloroethane          | 0.6                     | J |
| 78-93-3    | 2-Butanone                  | 5                       | U |
| 74-97-5    | Bromochloromethane          | 1                       | U |
| 71-55-6    | 1,1,1-Trichloroethane       | 1                       | U |
| 56-23-5    | Carbon tetrachloride        | 1                       | U |
| 75-27-4    | Bromodichloromethane        | 1                       | U |
| 78-87-5    | 1,2-Dichloropropane         | 1                       | U |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1                       | U |
| 79-01-6    | Trichloroethene             | 1                       | U |
| 124-48-1   | Dibromochloromethane        | 1                       | U |
| 79-00-5    | 1,1,2-Trichloroethane       | 1                       | U |
| 71-43-2    | Benzene                     | 1                       | U |
| 10061-02-6 | trans-1,3-Dichloropropene   | 1                       | U |
| 75-25-2    | Bromoform                   | 1                       | U |
| 108-10-1   | 4-Methyl-2-pentanone        | 5                       | U |
| 591-78-6   | 2-Hexanone                  | 5                       | U |
| 127-18-4   | Tetrachloroethene           | 1                       | U |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 1                       | U |
| 106-93-4   | 1,2-Dibromoethane           | 1                       | U |
| 108-88-3   | Toluene                     | 1                       | U |
| 108-90-7   | Chlorobenzene               | 1                       | U |
| 100-41-4   | Ethylbenzene                | 1                       | U |
| 100-42-5   | Styrene                     | 1                       | U |
| 1330-20-7  | Xylenes (total)             | 1                       | U |
| 541-73-1   | 1,3-Dichlorobenzene         | 1                       | U |
| 106-46-7   | 1,4-Dichlorobenzene         | 1                       | U |
| 95-50-1    | 1,2-Dichlorobenzene         | 1                       | U |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | 1                       | U |
| 120-82-1   | 1,2,4-Trichlorobenzene      | 1                       | U |

LOW CONC WATER VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO

EDCM2

Lab Name: ENVIROSYSTEMS Contract: 68-D7-0005  
 Lab Code: ENVSYS Case No: 27876 SAS No: SDG No: EDCJ8  
 Lab Sample ID: 00030926 Date Received: 03/18/00  
 Lab File ID: 030926 Date Analyzed: 03/23/00  
 Purge Volume: 25.00 (ml) Dilution Factor: 1.0  
 GC Column: RTX-502.2 ID: 0.530 (mm) Length: 105 (m)  
 Number TICs found: 0

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC.<br>(ug/L) | Q |
|------------|---------------|----|----------------------|---|
|            |               |    |                      |   |

2LCB  
 LOW CONC. WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name: ENVIROSYSTEMS

Contract: 68-D7-0005

Lab Code: ENVSYS

Case No.: 27876

SAS No.:

SDG No.: EDCJB

| EPA        | NBZ    | FBP    | TPH    | PHL    | 2FP    | TBP    | OTHER  | OUT |
|------------|--------|--------|--------|--------|--------|--------|--------|-----|
| SAMPLE NO. | %REC # | %REC # | %REC # | %REC # | %REC # | %REC # | %REC # | TOT |
| 01         | EDCJ4  | 54     | 60     | 64     | 78     | 80     | 52     | 0   |
| 02         | EDCJ5  | 50     | 51     | 56     | 68     | 64     | 51     | 0   |
| 03         | EDCJ8  | 62     | 60     | 57     | 65     | 64     | 54     | 0   |
| 04         | EDCJ9  | 53     | 47     | 62     | 60     | 56     | 41     | 0   |
| 05         | EDCK0  | 58     | 61     | 76     | 58     | 50     | 43     | 0   |
| 06         | EDCK1  | 52     | 61     | 69     | 64     | 60     | 41     | 0   |
| 07         | EDCK2  | 62     | 56     | 60     | 66     | 63     | 46     | 0   |
| 08         | EDCK3  | 48     | 52     | 64     | 49     | 44     | 37     | 0   |
| 09         | EDCK4  | 47     | 46     | 50     | 48     | 44     | 38     | 0   |
| 10         | EDCK5  | 57     | 56     | 61     | 74     | 70     | 48     | 0   |
| 11         | EDCK6  | 52     | 52     | 75     | 70     | 66     | 51     | 0   |
| 12         | EDCK8  | 45     | 42     | 40     | 56     | 54     | 44     | 0   |
| 13         | EDCK9  | 54     | 52     | 60     | 66     | 62     | 52     | 0   |
| 14         | EDCL0  | 56     | 53     | 67     | 68     | 65     | 53     | 0   |
| 15         | EDCL4  | 57     | 62     | 74     | 63     | 57     | 48     | 0   |
| 16         | SLCS06 | 68     | 63     | 72     | 69     | 60     | 51     | 0   |
| 17         | SBLK73 | 67     | 61     | 70     | 61     | 57     | 53     | 0   |
| 18         | SBLK76 | 60     | 61     | 72     | 67     | 58     | 48     | 0   |

QC LIMITS

- S1 (NBZ) = Nitrobenzene-d5 ( 23-120)
- S2 (FBP) = 2-Fluorobiphenyl ( 30-115)
- S3 (TPH) = Terphenyl ( 18-140)
- S4 (PHL) = Phenol-d5 ( 15-115)
- S5 (2FP) = 2-Fluorophenol ( 15-121)
- S6 (TBP) = 2,4,6-Tribromophenol ( 15-130)

# Column to be used to flag recovery values  
 \* Values outside of contract required QC limits  
 D Surrogates diluted out

3LCB

EPA SAMPLE NO

LOW CONC WATER SEMIVOLATILE LAB CONTROL SAMPLE RECOVERY

SLCS06

Lab Name: ENVIROSYSTEMS

Contract: 68-D7-0005

Lab Code: ENVSYS

Case No.: 27876

SAS No.:

SDG No.: EDCJB

Lab Sample ID: 0322LFBA2

LCS Lot No.:

Lab File ID: 0322LFBA2

Date Extracted: 03/22/00

LCS Aliquot: 1000 (ul)

Date Analyzed: 03/28/00

Concentrated Extract Volume: 1000 (ul)

Dilution Factor: 1.0

Injection Volume: 1.0 (ul)

pH: 5.0

| COMPOUND                   | AMOUNT<br>ADDED<br>(ng) | AMOUNT<br>RECOVERED<br>(ng) | %REC # | QC<br>LIMITS |
|----------------------------|-------------------------|-----------------------------|--------|--------------|
| Phenol                     | 40.0                    | 20.4                        | 51     | 40-120       |
| bis(2-Chloroethyl)ether    | 20.0                    | 12.0                        | 60     | 50-110       |
| 2-Chlorophenol             | 40.0                    | 21.6                        | 54     | 50-110       |
| N-Nitroso-di-n-propylamine | 20.0                    | 10.9                        | 54     | 30-110       |
| Hexachloroethane           | 20.0                    | 9.04                        | 45     | 20-110       |
| Isophorone                 | 20.0                    | 14.0                        | 70     | 50-110       |
| Napthalene                 | 20.0                    | 12.2                        | 61     | 30-110       |
| 4-Chloroaniline            | 40.0                    | 13.2                        | 33     | 10-120       |
| 2,4,6-Trichlorophenol      | 40.0                    | 25.5                        | 64     | 40-120       |
| 2,4-Dinitrotoluene         | 20.0                    | 10.5                        | 52     | 30-120       |
| Diethylphthalate           | 20.0                    | 13.3                        | 66     | 50-120       |
| N-Nitrosodiphenylamine     | 20.0                    | 9.55                        | 48     | 30-110       |
| Hexachlorobenzene          | 20.0                    | 14.4                        | 72     | 40-120       |
| Benzo(a)pyrene             | 20.0                    | 11.7                        | 58     | 50-120       |

# Column to be used to flag LCS recovery with an asterisk

\* Values outside of QC limits

LCS Recovery: 0 outside limits out of 14 total.

COMMENTS:

0321

4LCB  
 LOW CONC. WATER SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO

SBLK73

Lab Name: ENVIROSYSTEMS

Contract: 68-D7-0005

Lab Code: ENVSYS

Case No.: 27876

SAS No.:

SDG No.: EDCJ8

Lab Sample ID: 0322SWBA1

Date Extracted: 03/22/00

Lab File ID: 0322SWBA1

Date Analyzed: 03/28/00

Instrument ID: F5100A

Time Analyzed: 0922

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND LCS:

| EPA<br>SAMPLE NO. | LAB<br>SAMPLE ID | LAB<br>FILE ID | DATE<br>ANALYZED |
|-------------------|------------------|----------------|------------------|
| 01:EDCJ8          | 00030902         | S030902        | 03/28/00         |
| 02:EDCK0          | 00030903         | S030903        | 03/28/00         |
| 03:EDCK1          | 00030904         | S030904        | 03/28/00         |
| 04:EDCK2          | 00030905         | S030905        | 03/28/00         |
| 05:EDCK3          | 00030906         | S030906        | 03/28/00         |
| 06:EDCK4          | 00030907         | S030907        | 03/28/00         |
| 07:EDCL4          | 00030924         | S030924        | 03/28/00         |
| 08:SLCS06         | 0322LFBA2        | 0322LFBA2      | 03/28/00         |

COMMENTS: SBLK73 BNA H2O BLANK 3/22/00  
 F5100A 40(2)/320/11

4LCB  
 LOW CONC. WATER SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO

SBLK76

Lab Name: ENVIROSYSTEMS

Contract: 68-D7-0005

Lab Code: ENVSYS

Case No.: 27876

SAS No.:

SDG No.: EDCJ8

Lab Sample ID: 0323SWBA2

Date Extracted: 03/23/00

Lab File ID: 0323SWBA2

Date Analyzed: 03/28/00

Instrument ID: F5100A

Time Analyzed: 1745

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND LCS:

| EPA<br>SAMPLE NO. | LAB<br>SAMPLE ID | LAB<br>FILE ID | DATE<br>ANALYZED |
|-------------------|------------------|----------------|------------------|
| 01:EDCJ4          | 00030920         | S030920        | 03/29/00         |
| 02:EDCJ5          | 00030921         | S030921        | 03/29/00         |
| 03:EDCJ9          | 00030922         | S030922        | 03/29/00         |
| 04:EDCK5          | 00030908         | S030908        | 03/29/00         |
| 05:EDCK6          | 00030909         | S030909        | 03/29/00         |
| 06:EDCK8          | 00030923         | S030923        | 03/29/00         |
| 07:EDCK9          | 00030910         | S030910        | 03/29/00         |
| 08:EDCLO          | 00030911         | S030911        | 03/29/00         |

COMMENTS: SBLK76 BNA H2O BLANK 3/23/00  
 F5100A 40(2)/320/11

1LCB  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

SBLK73

Lab Name: ENVIROSYSTEMS

Contract: 68-D7-0005

Lab Code: ENVSYS

Case No.: 27876

SAS No.:

SDG No.: EDCJ8

Lab Sample ID: 0322SWBA1

Date Received:

Lab File ID: 0322SWBA1

Date Extracted: 03/22/00

Sample volume: 1000 (ml)

Date Analyzed: 03/28/00

Concentrated Extract Volume: 1000 (ul)

Dilution Factor: 1.0

Injection Volume: 1.0 (ul)

pH: 5.0

| CAS NO.  | COMPOUND                      | CONCENTRATION<br>(ug/L) | Q |
|----------|-------------------------------|-------------------------|---|
| 108-95-2 | Phenol                        | 5                       | U |
| 111-44-4 | bis(2-Chloroethyl)Ether       | 5                       | U |
| 95-57-8  | 2-Chlorophenol                | 5                       | U |
| 95-48-7  | 2-Methylphenol                | 5                       | U |
| 108-60-1 | 2, 2'-oxybis(1-Chloropropane) | 5                       | U |
| 106-44-5 | 4-Methylphenol                | 5                       | U |
| 621-64-7 | N-Nitroso-Di-n-Propylamine    | 5                       | U |
| 67-72-1  | Hexachloroethane              | 5                       | U |
| 98-95-3  | Nitrobenzene                  | 5                       | U |
| 78-59-1  | Isophorone                    | 5                       | U |
| 88-75-5  | 2-Nitrophenol                 | 5                       | U |
| 105-67-9 | 2, 4-Dimethylphenol           | 5                       | U |
| 111-91-1 | bis(2-Chloroethoxy)Methane    | 5                       | U |
| 120-83-2 | 2, 4-Dichlorophenol           | 5                       | U |
| 91-20-3  | Naphthalene                   | 5                       | U |
| 106-47-8 | 4-Chloroaniline               | 5                       | U |
| 87-68-3  | Hexachlorobutadiene           | 5                       | U |
| 59-50-7  | 4-Chloro-3-Methylphenol       | 5                       | U |
| 91-57-6  | 2-Methylnaphthalene           | 5                       | U |
| 77-47-4  | Hexachlorocyclopentadiene     | 5                       | U |
| 88-06-2  | 2, 4, 6-Trichlorophenol       | 5                       | U |
| 95-95-4  | 2, 4, 5-Trichlorophenol       | 20                      | U |
| 91-58-7  | 2-Chloronaphthalene           | 5                       | U |
| 88-74-4  | 2-Nitroaniline                | 20                      | U |
| 131-11-3 | Dimethylphthalate             | 5                       | U |
| 208-96-8 | Acenaphthylene                | 5                       | U |
| 606-20-2 | 2, 6-Dinitrotoluene           | 5                       | U |
| 99-09-2  | 3-Nitroaniline                | 20                      | U |
| 83-32-9  | Acenaphthene                  | 5                       | U |

1LCC  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

SBLK73

Lab Name: ENVIROSYSTEMS Contract: 68-D7-0005  
 Lab Code: ENVSYS Case No.: 27876 SAS No.: SDG No.: EDCJ8  
 Lab Sample ID: 0322SWBA1 Date Received:  
 Lab File ID: 0322SWBA1 Date Extracted: 03/22/00  
 Sample volume: 1000 (ml) Date Analyzed: 03/28/00  
 Concentrated Extract Volume: 1000 (ul) Dilution Factor: 1.0  
 Injection Volume: 1.0 (ul) pH: 5.0

| CAS NO.   | COMPOUND                   | CONCENTRATION<br>(ug/L) | Q |
|-----------|----------------------------|-------------------------|---|
| 51-28-5   | 2,4-Dinitrophenol          | 20                      | U |
| 100-02-7  | 4-Nitrophenol              | 20                      | U |
| 132-64-9  | Dibenzofuran               | 5                       | U |
| 121-14-2  | 2,4-Dinitrotoluene         | 5                       | U |
| 84-66-2   | Diethylphthalate           | 5                       | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 5                       | U |
| 86-73-7   | Fluorene                   | 5                       | U |
| 100-01-6  | 4-Nitroaniline             | 20                      | U |
| 534-52-1  | 4,6-Dinitro-2-methylphenol | 20                      | U |
| 86-30-6   | N-Nitrosodiphenylamine (1) | 5                       | U |
| 101-55-3  | 4-Bromophenyl-phenylether  | 5                       | U |
| 118-74-1  | Hexachlorobenzene          | 5                       | U |
| 87-86-5   | Pentachlorophenol          | 20                      | U |
| 85-01-8   | Phenanthrene               | 5                       | U |
| 120-12-7  | Anthracene                 | 5                       | U |
| 84-74-2   | Di-n-Butylphthalate        | 5                       | U |
| 206-44-0  | Fluoranthene               | 5                       | U |
| 129-00-0  | Pyrene                     | 5                       | U |
| 85-68-7   | Butylbenzylphthalate       | 5                       | U |
| 91-94-1   | 3,3'-Dichlorobenzidine     | 5                       | U |
| 56-55-3   | Benzo(a)Anthracene         | 5                       | U |
| 218-01-9  | Chrysene                   | 5                       | U |
| 117-81-7  | bis(2-Ethylhexyl)Phthalate | 5                       | U |
| 117-84-0  | Di-n-octylphthalate        | 5                       | U |
| 205-99-2  | Benzo(b)Fluoranthene       | 5                       | U |
| 207-08-9  | Benzo(k)Fluoranthene       | 5                       | U |
| 50-32-8   | Benzo(a)Pyrene             | 5                       | U |
| 193-39-5  | Indeno(1,2,3-cd)Pyrene     | 5                       | U |
| 53-70-3   | Dibenz(a,h)Anthracene      | 5                       | U |
| 191-24-2  | Benzo(g,h,i)Perylene       | 5                       | U |

(1) - Cannot be separated from Diphenylamine

1LCF  
LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO

Lab Name: ENVIROSYSTEMS Contract: 68-D7-0005 SBLK73

Lab Code: ENVSYS Case No.: 27876 SAS No.: SDG No.: EDCJ8

Lab Sample ID: 0322SWBA1 Date Received:

Lab File ID: 0322SWBA1 Date Extracted: 03/22/00

Sample volume: 1000 (ml) Date Analyzed: 03/28/00

Concentrated Extract Volume: 1000 (ul) Dilution Factor: 1.0

Injection Volume: 1.0 (ul) pH: 5.0

Number TICs found: 0

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC.<br>(ug/L) | G |
|------------|---------------|----|----------------------|---|
|            |               |    |                      |   |

## LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SBLK76

Lab Name: ENVIROSYSTEMS

Contract: 68-D7-0005

Lab Code: ENVSYS

Case No.: 27876

SAS No.:

SDG No.: EDCJB

Lab Sample ID: 0323SWBA2

Date Received:

Lab File ID: 0323SWBA2

Date Extracted: 03/23/00

Sample volume: 1000 (ml)

Date Analyzed: 03/28/00

Concentrated Extract Volume: 1000 (ul)

Dilution Factor: 1.0

Injection Volume: 1.0 (ul)

pH: 5.0

| CAS NO.  | COMPOUND                     | CONCENTRATION<br>(ug/L) | Q |
|----------|------------------------------|-------------------------|---|
| 108-95-2 | Phenol                       | 5                       | U |
| 111-44-4 | bis(2-Chloroethyl)Ether      | 5                       | U |
| 95-57-8  | 2-Chlorophenol               | 5                       | U |
| 95-48-7  | 2-Methylphenol               | 5                       | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 5                       | U |
| 106-44-5 | 4-Methylphenol               | 5                       | U |
| 621-64-7 | N-Nitroso-Di-n-Propylamine   | 5                       | U |
| 67-72-1  | Hexachloroethane             | 5                       | U |
| 98-95-3  | Nitrobenzene                 | 5                       | U |
| 78-59-1  | Isophorone                   | 5                       | U |
| 88-75-5  | 2-Nitrophenol                | 5                       | U |
| 105-67-9 | 2,4-Dimethylphenol           | 5                       | U |
| 111-91-1 | bis(2-Chloroethoxy)Methane   | 5                       | U |
| 120-83-2 | 2,4-Dichlorophenol           | 5                       | U |
| 91-20-3  | Naphthalene                  | 5                       | U |
| 106-47-8 | 4-Chloroaniline              | 5                       | U |
| 87-68-3  | Hexachlorobutadiene          | 5                       | U |
| 59-50-7  | 4-Chloro-3-Methylphenol      | 5                       | U |
| 91-57-6  | 2-Methylnaphthalene          | 5                       | U |
| 77-47-4  | Hexachlorocyclopentadiene    | 5                       | U |
| 88-06-2  | 2,4,6-Trichlorophenol        | 5                       | U |
| 95-95-4  | 2,4,5-Trichlorophenol        | 20                      | U |
| 91-58-7  | 2-Chloronaphthalene          | 5                       | U |
| 88-74-4  | 2-Nitroaniline               | 20                      | U |
| 131-11-3 | Dimethylphthalate            | 5                       | U |
| 208-96-8 | Acenaphthylene               | 5                       | U |
| 606-20-2 | 2,6-Dinitrotoluene           | 5                       | U |
| 99-09-2  | 3-Nitroaniline               | 20                      | U |
| 83-32-9  | Acenaphthene                 | 5                       | U |

1LCC  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

SBLK76

Lab Name: ENVIROSYSTEMS

Contract: 68-D7-0005

Lab Code: ENVSYS

Case No.: 27876

SAS No.:

SDG No.: EDCJB

Lab Sample ID: 0323SWBA2

Date Received:

Lab File ID: 0323SWBA2

Date Extracted: 03/23/00

Sample volume: 1000 (ml)

Date Analyzed: 03/28/00

Concentrated Extract Volume: 1000 (ul)

Dilution Factor: 1.0

Injection Volume: 1.0 (ul)

pH: 5.0

| CAS NO.   | COMPOUND                   | CONCENTRATION<br>(ug/L) | g |
|-----------|----------------------------|-------------------------|---|
| 51-28-5   | 2,4-Dinitrophenol          | 20                      | U |
| 100-02-7  | 4-Nitrophenol              | 20                      | U |
| 132-64-9  | Dibenzofuran               | 5                       | U |
| 121-14-2  | 2,4-Dinitrotoluene         | 5                       | U |
| 84-66-2   | Diethylphthalate           | 5                       | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 5                       | U |
| 86-73-7   | Fluorene                   | 5                       | U |
| 100-01-6  | 4-Nitroaniline             | 20                      | U |
| 534-52-1  | 4,6-Dinitro-2-methylphenol | 20                      | U |
| 86-30-6   | N-Nitrosodiphenylamine (1) | 5                       | U |
| 101-55-3  | 4-Bromophenyl-phenylether  | 5                       | U |
| 118-74-1  | Hexachlorobenzene          | 5                       | U |
| 87-86-5   | Pentachlorophenol          | 20                      | U |
| 85-01-8   | Phenanthrene               | 5                       | U |
| 120-12-7  | Anthracene                 | 5                       | U |
| 84-74-2   | Di-n-Butylphthalate        | 5                       | U |
| 206-44-0  | Fluoranthene               | 5                       | U |
| 129-00-0  | Pyrene                     | 5                       | U |
| 85-68-7   | Butylbenzylphthalate       | 3                       | U |
| 91-94-1   | 3,3'-Dichlorobenzidine     | 5                       | U |
| 56-55-3   | Benzo(a)Anthracene         | 5                       | U |
| 218-01-9  | Chrysene                   | 5                       | U |
| 117-81-7  | bis(2-Ethylhexyl)Phthalate | 5                       | U |
| 117-84-0  | Di-n-octylphthalate        | 5                       | U |
| 205-99-2  | Benzo(b)Fluoranthene       | 5                       | U |
| 207-08-9  | Benzo(k)Fluoranthene       | 5                       | U |
| 50-32-8   | Benzo(a)Pyrene             | 5                       | U |
| 193-39-5  | Indeno(1,2,3-cd)Pyrene     | 5                       | U |
| 53-70-3   | Dibenz(a,h)Anthracene      | 5                       | U |
| 191-24-2  | Benzo(g,h,i)Perylene       | 5                       | U |

(1) - Cannot be separated from Diphenylamine

1LCF

EPA SAMPLE NO

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

SBLK76

Lab Name: ENVIROSYSTEMS

Contract: 68-D7-0005

Lab Code: ENVSYS

Case No.: 27876

SAS No.:

SDG No.: EDCJ8

Lab Sample ID: 0323SWBA2

Date Received:

Lab File ID: 0323SWBA2

Date Extracted: 03/23/00

Sample volume: 1000 (ml)

Date Analyzed: 03/28/00

Concentrated Extract Volume: 1000 (ul)

Dilution Factor: 1.0

Injection Volume: 1.0 (ul)

pH: 5.0

Number TICs found: 0

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC.<br>(ug/L) | Q |
|------------|---------------|----|----------------------|---|
|            |               |    |                      |   |

020617

1LCB  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

SLCS06

Lab Name: ENVIROSYSTEMS

Contract: 68-D7-0005

Lab Code: ENVSYS

Case No.: 27876

SAS No.:

SDG No.: EDCJB

Lab Sample ID: 0322LFBA2

Date Received:

Lab File ID: 0322LFBA2

Date Extracted: 03/22/00

Sample volume: 1000 (ml)

Date Analyzed: 03/28/00

Concentrated Extract Volume: 1000 (ul)

Dilution Factor: 1.0

Injection Volume: 1.0 (ul)

pH: 5.0

| CAS NO.  | COMPOUND                     | CONCENTRATION<br>(ug/L) | g |
|----------|------------------------------|-------------------------|---|
| 108-95-2 | Phenol                       | 20                      |   |
| 111-44-4 | bis(2-Chloroethyl)Ether      | 12                      |   |
| 95-57-8  | 2-Chlorophenol               | 22                      |   |
| 95-48-7  | 2-Methylphenol               | 5                       | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 5                       | U |
| 106-44-5 | 4-Methylphenol               | 5                       | U |
| 621-64-7 | N-Nitroso-Di-n-Propylamine   | 11                      |   |
| 67-72-1  | Hexachloroethane             | 9                       |   |
| 98-95-3  | Nitrobenzene                 | 5                       | U |
| 78-59-1  | Isophorone                   | 14                      |   |
| 88-75-5  | 2-Nitrophenol                | 5                       | U |
| 105-67-9 | 2,4-Dimethylphenol           | 5                       | U |
| 111-91-1 | bis(2-Chloroethoxy)Methane   | 5                       | U |
| 120-83-2 | 2,4-Dichlorophenol           | 5                       | U |
| 91-20-3  | Naphthalene                  | 12                      |   |
| 106-47-8 | 4-Chloroaniline              | 13                      |   |
| 87-68-3  | Hexachlorobutadiene          | 5                       | U |
| 59-50-7  | 4-Chloro-3-Methylphenol      | 5                       | U |
| 91-57-6  | 2-Methylnaphthalene          | 5                       | U |
| 77-47-4  | Hexachlorocyclopentadiene    | 5                       | U |
| 88-06-2  | 2,4,6-Trichlorophenol        | 26                      |   |
| 95-95-4  | 2,4,5-Trichlorophenol        | 20                      | U |
| 91-58-7  | 2-Chloronaphthalene          | 5                       | U |
| 88-74-4  | 2-Nitroaniline               | 20                      | U |
| 131-11-3 | Dimethylphthalate            | 5                       | U |
| 208-96-8 | Acenaphthylene               | 5                       | U |
| 606-20-2 | 2,6-Dinitrotoluene           | 5                       | U |
| 99-09-2  | 3-Nitroaniline               | 20                      | U |
| 83-32-9  | Acenaphthene                 | 5                       | U |

1LCC  
 LOW CONC WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

SLCS06

Lab Name: ENVIROSYSTEMS Contract: 68-D7-0005  
 Lab Code: ENVSYS Case No.: 27876 SAS No.: SDG No.: EDCJB  
 Lab Sample ID: 0322LFBA2 Date Received:  
 Lab File ID: 0322LFBA2 Date Extracted: 03/22/00  
 Sample volume: 1000 (ml) Date Analyzed: 03/28/00  
 Concentrated Extract Volume: 1000 (ul) Dilution Factor: 1.0  
 Injection Volume: 1.0 (ul) pH: 5.0

| CAS NO.   | COMPOUND                   | CONCENTRATION<br>(ug/L) | Q |
|-----------|----------------------------|-------------------------|---|
| 51-28-5   | 2,4-Dinitrophenol          | 20                      | U |
| 100-02-7  | 4-Nitrophenol              | 20                      | U |
| 132-64-9  | Dibenzofuran               | 5                       | U |
| 121-14-2  | 2,4-Dinitrotoluene         | 10                      |   |
| 84-66-2   | Diethylphthalate           | 13                      |   |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 5                       | U |
| 86-73-7   | Fluorene                   | 5                       | U |
| 100-01-6  | 4-Nitroaniline             | 20                      | U |
| 534-52-1  | 4,6-Dinitro-2-methylphenol | 20                      | U |
| 86-30-6   | N-Nitrosodiphenylamine (1) | 10                      |   |
| 101-55-3  | 4-Bromophenyl-phenylether  | 5                       | U |
| 118-74-1  | Hexachlorobenzene          | 14                      |   |
| 87-86-5   | Pentachlorophenol          | 20                      | U |
| 85-01-8   | Phenanthrene               | 5                       | U |
| 120-12-7  | Anthracene                 | 5                       | U |
| 84-74-2   | Di-n-Butylphthalate        | 5                       | U |
| 206-44-0  | Fluoranthene               | 5                       | U |
| 129-00-0  | Pyrene                     | 5                       | U |
| 85-68-7   | Butylbenzylphthalate       | 5                       | U |
| 91-94-1   | 3,3'-Dichlorobenzidine     | 5                       | U |
| 56-55-3   | Benzo(a)Anthracene         | 5                       | U |
| 218-01-9  | Chrysene                   | 5                       | U |
| 117-81-7  | bis(2-Ethylhexyl)Phthalate | 5                       | U |
| 117-84-0  | Di-n-octylphthalate        | 5                       | U |
| 205-99-2  | Benzo(b)Fluoranthene       | 5                       | U |
| 207-08-9  | Benzo(k)Fluoranthene       | 5                       | U |
| 50-32-8   | Benzo(a)Pyrene             | 12                      |   |
| 193-39-5  | Indeno(1,2,3-cd)Pyrene     | 5                       | U |
| 53-70-3   | Dibenz(a,h)Anthracene      | 5                       | U |
| 191-24-2  | Benzo(g,h,i)Perylene       | 5                       | U |

(1) - Cannot be separated from Diphenylamine

020633

1LCB  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDCJ4

Lab Name: ENVIROSYSTEMS

Contract: 68-D7-0005

Lab Code: ENVSYS

Case No.: 27876

SAS No.:

SDG No.: EDCJ8

Lab Sample ID: 00030920

Date Received: 03/18/00

Lab File ID: S030920

Date Extracted: 03/23/00

Sample volume: 1000 (ml)

Date Analyzed: 03/29/00

Concentrated Extract Volume: 1000 (ul)

Dilution Factor: 1.0

Injection Volume: 1.0 (ul)

pH: 7.0

| CAS NO.  | COMPOUND                     | CONCENTRATION<br>(ug/L) | Q |
|----------|------------------------------|-------------------------|---|
|          | 51125                        |                         |   |
| 108-95-2 | Phenol                       | 5                       | U |
| 111-44-4 | bis(2-Chloroethyl)Ether      | 5                       | U |
| 95-57-8  | 2-Chlorophenol               | 5                       | U |
| 95-48-7  | 2-Methylphenol               | 5                       | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 5                       | U |
| 106-44-5 | 4-Methylphenol               | 5                       | U |
| 621-64-7 | N-Nitroso-Di-n-Propylamine   | 5                       | U |
| 67-72-1  | Hexachloroethane             | 5                       | U |
| 98-95-3  | Nitrobenzene                 | 5                       | U |
| 78-59-1  | Isophorone                   | 5                       | U |
| 88-75-5  | 2-Nitrophenol                | 5                       | U |
| 105-67-9 | 2,4-Dimethylphenol           | 5                       | U |
| 111-91-1 | bis(2-Chloroethoxy)Methane   | 5                       | U |
| 120-83-2 | 2,4-Dichlorophenol           | 5                       | U |
| 91-20-3  | Naphthalene                  | 5                       | U |
| 106-47-8 | 4-Chloroaniline              | 5                       | U |
| 87-68-3  | Hexachlorobutadiene          | 5                       | U |
| 59-50-7  | 4-Chloro-3-Methylphenol      | 5                       | U |
| 91-57-6  | 2-Methylnaphthalene          | 5                       | U |
| 77-47-4  | Hexachlorocyclopentadiene    | 5                       | U |
| 88-06-2  | 2,4,6-Trichlorophenol        | 5                       | U |
| 95-95-4  | 2,4,5-Trichlorophenol        | 20                      | U |
| 91-58-7  | 2-Chloronaphthalene          | 5                       | U |
| 88-74-4  | 2-Nitroaniline               | 20                      | U |
| 131-11-3 | Dimethylphthalate            | 5                       | U |
| 208-96-8 | Acenaphthylene               | 5                       | U |
| 606-20-2 | 2,6-Dinitrotoluene           | 5                       | U |
| 99-09-2  | 3-Nitroaniline               | 20                      | U |
| 83-32-9  | Acenaphthene                 | 5                       | U |

1LCC  
LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

EDCJ4

Lab Name: ENVIROSYSTEMS

Contract: 68-D7-0005

Lab Code: ENVSYS

Case No.: 27876

SAS No.:

SDG No.: EDCJ8

Lab Sample ID: 00030920

Date Received: 03/18/00

Lab File ID: S030920

Date Extracted: 03/23/00

Sample volume: 1000 (ml)

Date Analyzed: 03/29/00

Concentrated Extract Volume: 1000 (ul)

Dilution Factor: 1.0

Injection Volume: 1.0 (ul)

pH: 7.0

| CAS NO.   | COMPOUND                   | CONCENTRATION (ug/L) | Q |
|-----------|----------------------------|----------------------|---|
| 51-28-5   | 2,4-Dinitrophenol          | 20                   | U |
| 100-02-7  | 4-Nitrophenol              | 20                   | U |
| 132-64-9  | Dibenzofuran               | 5                    | U |
| 121-14-2  | 2,4-Dinitrotoluene         | 5                    | U |
| 84-66-2   | Diethylphthalate           | 5                    | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 5                    | U |
| 86-73-7   | Fluorene                   | 5                    | U |
| 100-01-6  | 4-Nitroaniline             | 20                   | U |
| 534-52-1  | 4,6-Dinitro-2-methylphenol | 20                   | U |
| 86-30-6   | N-Nitrosodiphenylamine (1) | 5                    | U |
| 101-55-3  | 4-Bromophenyl-phenylether  | 5                    | U |
| 118-74-1  | Hexachlorobenzene          | 5                    | U |
| 87-86-5   | Pentachlorophenol          | 20                   | U |
| 85-01-8   | Phenanthrene               | 5                    | U |
| 120-12-7  | Anthracene                 | 5                    | U |
| 84-74-2   | Di-n-Butylphthalate        | 5                    | U |
| 206-44-0  | Fluoranthene               | 5                    | U |
| 129-00-0  | Pyrene                     | 5                    | U |
| 85-68-7   | Butylbenzylphthalate       | 5                    | U |
| 91-94-1   | 3,3'-Dichlorobenzidine     | 5                    | U |
| 56-55-3   | Benzo(a)Anthracene         | 5                    | U |
| 218-01-9  | Chrysene                   | 5                    | U |
| 117-81-7  | bis(2-Ethylhexyl)Phthalate | 5                    | U |
| 117-84-0  | Di-n-octylphthalate        | 5                    | U |
| 205-99-2  | Benzo(b)Fluoranthene       | 5                    | U |
| 207-08-9  | Benzo(k)Fluoranthene       | 5                    | U |
| 50-32-8   | Benzo(a)Pyrene             | 5                    | U |
| 193-39-5  | Indeno(1,2,3-cd)Pyrene     | 5                    | U |
| 53-70-3   | Dibenz(a,h)Anthracene      | 5                    | U |
| 191-24-2  | Benzo(g,h,i)Perylene       | 5                    | U |

(1) - Cannot be separated from Diphenylamine

1LCF  
LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO

EDCJ4

Lab Name: ENVIROSYSTEMS

Contract: 68-D7-0005

Lab Code: ENVSYS

Case No.: 27876

SAS No.:

SDG No.: EDCJ8

Lab Sample ID: 00030920

Date Received: 03/18/00

Lab File ID: S030920

Date Extracted: 03/23/00

Sample volume: 1000 (ml)

Date Analyzed: 03/29/00

Concentrated Extract Volume: 1000 (ul)

Dilution Factor: 1.0

Injection Volume: 1.0 (ul)

pH: 7.0

Number TICs found: 0

| CAS NUMBER | COMPOUND NAME | RT    | EST. CONC.<br>(ug/L) | Q     |
|------------|---------------|-------|----------------------|-------|
| =====      | =====         | ===== | =====                | ===== |
|            |               |       |                      |       |

## LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EDCJ5

Lab Name: ENVIROSYSTEMS

Contract: 68-D7-0005

Lab Code: ENVSYS

Case No.: 27876

SAS No.:

SDG No.: EDCJ8

Lab Sample ID: 00030921

Date Received: 03/18/00

Lab File ID: S030921

Date Extracted: 03/23/00

Sample volume: 1000 (ml)

Date Analyzed: 03/29/00

Concentrated Extract Volume: 1000 (ul)

Dilution Factor: 1.0

Injection Volume: 1.0 (ul)

pH: 7.0

| CAS NO.  | COMPOUND                     | CONCENTRATION<br>(ug/L) | Q |
|----------|------------------------------|-------------------------|---|
| 108-95-2 | Phenol                       | 5                       | U |
| 111-44-4 | bis(2-Chloroethyl)Ether      | 5                       | U |
| 95-57-8  | 2-Chlorophenol               | 5                       | U |
| 95-48-7  | 2-Methylphenol               | 5                       | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 5                       | U |
| 106-44-5 | 4-Methylphenol               | 5                       | U |
| 621-64-7 | N-Nitroso-Di-n-Propylamine   | 5                       | U |
| 67-72-1  | Hexachloroethane             | 5                       | U |
| 98-95-3  | Nitrobenzene                 | 5                       | U |
| 78-59-1  | Isophorone                   | 5                       | U |
| 88-75-5  | 2-Nitrophenol                | 5                       | U |
| 105-67-9 | 2,4-Dimethylphenol           | 5                       | U |
| 111-91-1 | bis(2-Chloroethoxy)Methane   | 5                       | U |
| 120-83-2 | 2,4-Dichlorophenol           | 5                       | U |
| 91-20-3  | Naphthalene                  | 5                       | U |
| 106-47-8 | 4-Chloroaniline              | 5                       | U |
| 87-68-3  | Hexachlorobutadiene          | 5                       | U |
| 59-50-7  | 4-Chloro-3-Methylphenol      | 5                       | U |
| 91-57-6  | 2-Methylnaphthalene          | 5                       | U |
| 77-47-4  | Hexachlorocyclopentadiene    | 5                       | U |
| 88-06-2  | 2,4,6-Trichlorophenol        | 5                       | U |
| 95-95-4  | 2,4,5-Trichlorophenol        | 20                      | U |
| 91-58-7  | 2-Chloronaphthalene          | 5                       | U |
| 88-74-4  | 2-Nitroaniline               | 20                      | U |
| 131-11-3 | Dimethylphthalate            | 5                       | U |
| 208-96-8 | Acenaphthylene               | 5                       | U |
| 606-20-2 | 2,6-Dinitrotoluene           | 5                       | U |
| 99-09-2  | 3-Nitroaniline               | 20                      | U |
| 83-32-9  | Acenaphthene                 | 5                       | U |

1LCC  
LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

EDCJ5

Lab Name: ENVIROSYSTEMS

Contract: 68-D7-0005

Lab Code: ENVSYS

Case No.: 27876

SAS No.:

SDG No.: EDCJB

Lab Sample ID: 00030921

Date Received: 03/18/00

Lab File ID: S030921

Date Extracted: 03/23/00

Sample volume: 1000 (ml)

Date Analyzed: 03/29/00

Concentrated Extract Volume: 1000 (ul)

Dilution Factor: 1.0

Injection Volume: 1.0 (ul)

pH: 7.0

| CAS NO.   | COMPOUND                   | CONCENTRATION<br>(ug/L) g |   |
|-----------|----------------------------|---------------------------|---|
| 51-28-5   | 2,4-Dinitrophenol          | 20                        | U |
| 100-02-7  | 4-Nitrophenol              | 20                        | U |
| 132-64-9  | Dibenzofuran               | 5                         | U |
| 121-14-2  | 2,4-Dinitrotoluene         | 5                         | U |
| 84-66-2   | Diethylphthalate           | 5                         | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 5                         | U |
| 86-73-7   | Fluorene                   | 5                         | U |
| 100-01-6  | 4-Nitroaniline             | 20                        | U |
| 534-52-1  | 4,6-Dinitro-2-methylphenol | 20                        | U |
| 86-30-6   | N-Nitrosodiphenylamine (1) | 5                         | U |
| 101-55-3  | 4-Bromophenyl-phenylether  | 5                         | U |
| 118-74-1  | Hexachlorobenzene          | 5                         | U |
| 87-86-5   | Pentachlorophenol          | 20                        | U |
| 85-01-8   | Phenanthrene               | 5                         | U |
| 120-12-7  | Anthracene                 | 5                         | U |
| 84-74-2   | Di-n-Butylphthalate        | 5                         | U |
| 206-44-0  | Fluoranthene               | 5                         | U |
| 129-00-0  | Pyrene                     | 5                         | U |
| 85-68-7   | Butylbenzylphthalate       | 5                         | U |
| 91-94-1   | 3,3'-Dichlorobenzidine     | 5                         | U |
| 56-55-3   | Benzo(a)Anthracene         | 5                         | U |
| 218-01-9  | Chrysene                   | 5                         | U |
| 117-81-7  | bis(2-Ethylhexyl)Phthalate | 5                         | U |
| 117-84-0  | Di-n-octylphthalate        | 5                         | U |
| 205-99-2  | Benzo(b)Fluoranthene       | 5                         | U |
| 207-08-9  | Benzo(k)Fluoranthene       | 5                         | U |
| 50-32-8   | Benzo(a)Pyrene             | 5                         | U |
| 193-39-5  | Indeno(1,2,3-cd)Pyrene     | 5                         | U |
| 53-70-3   | Dibenz(a,h)Anthracene      | 5                         | U |
| 191-24-2  | Benzo(g,h,i)Perylene       | 5                         | U |

(1) - Cannot be separated from Diphenylamine

0.0348

1LCF

EPA SAMPLE NO

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EDCJ5

Lab Name: ENVIROSYSTEMS

Contract: 68-D7-0005

Lab Code: ENVSYS

Case No.: 27876

SAS No.:

SDG No.: EDCJ8

Lab Sample ID: 00030921

Date Received: 03/18/00

Lab File ID: S030921

Date Extracted: 03/23/00

Sample volume: 1000 (ml)

Date Analyzed: 03/29/00

Concentrated Extract Volume: 1000 (ul)

Dilution Factor: 1.0

Injection Volume: 1.0 (ul)

pH: 7.0

Number TICs found: 0

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC.<br>(ug/L) | Q |
|------------|---------------|----|----------------------|---|
|            |               |    |                      |   |

1LCB  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

EDCJ8

Lab Name: ENVIROSYSTEMS

Contract: 68-D7-0005

Lab Code: ENVSYS

Case No.: 27876

SAS No.:

SDG No.: EDCJ8

Lab Sample ID: 00030902

Date Received: 03/17/00

Lab File ID: S030902

Date Extracted: 03/22/00

Sample volume: 1000 (ml)

Date Analyzed: 03/28/00

Concentrated Extract Volume: 1000 (ul)

Dilution Factor: 1.0

Injection Volume: 1.0 (ul)

pH: 7.0

| CAS NO.  | COMPOUND                     | CONCENTRATION<br>(ug/L) | Q |
|----------|------------------------------|-------------------------|---|
| 108-95-2 | Phenol                       | 5                       | U |
| 111-44-4 | bis(2-Chloroethyl)Ether      | 5                       | U |
| 95-57-8  | 2-Chlorophenol               | 5                       | U |
| 95-48-7  | 2-Methylphenol               | 5                       | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 5                       | U |
| 106-44-5 | 4-Methylphenol               | 5                       | U |
| 621-64-7 | N-Nitroso-Di-n-Propylamine   | 5                       | U |
| 67-72-1  | Hexachloroethane             | 5                       | U |
| 98-95-3  | Nitrobenzene                 | 5                       | U |
| 78-59-1  | Isophorone                   | 5                       | U |
| 88-75-5  | 2-Nitrophenol                | 5                       | U |
| 105-67-9 | 2,4-Dimethylphenol           | 5                       | U |
| 111-91-1 | bis(2-Chloroethoxy)Methane   | 5                       | U |
| 120-83-2 | 2,4-Dichlorophenol           | 5                       | U |
| 91-20-3  | Naphthalene                  | 5                       | U |
| 106-47-8 | 4-Chloroaniline              | 5                       | U |
| 87-68-3  | Hexachlorobutadiene          | 5                       | U |
| 59-50-7  | 4-Chloro-3-Methylphenol      | 5                       | U |
| 91-57-6  | 2-Methylnaphthalene          | 5                       | U |
| 77-47-4  | Hexachlorocyclopentadiene    | 5                       | U |
| 88-06-2  | 2,4,6-Trichlorophenol        | 5                       | U |
| 95-95-4  | 2,4,5-Trichlorophenol        | 20                      | U |
| 91-58-7  | 2-Chloronaphthalene          | 5                       | U |
| 88-74-4  | 2-Nitroaniline               | 20                      | U |
| 131-11-3 | Dimethylphthalate            | 5                       | U |
| 208-96-8 | Acenaphthylene               | 5                       | U |
| 606-20-2 | 2,6-Dinitrotoluene           | 5                       | U |
| 99-09-2  | 3-Nitroaniline               | 20                      | U |
| 83-32-9  | Acenaphthene                 | 5                       | U |

ILCC

EPA SAMPLE NO.

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EDCJ8

Lab Name: ENVIROSYSTEMS

Contract: 68-D7-0005

Lab Code: ENVSYS

Case No.: 27876

SAS No.:

SDG No.: EDCJ8

Lab Sample ID: 00030902

Date Received: 03/17/00

Lab File ID: S030902

Date Extracted: 03/22/00

Sample volume: 1000 (ml)

Date Analyzed: 03/28/00

Concentrated Extract Volume: 1000 (ul)

Dilution Factor: 1.0

Injection Volume: 1.0 (ul)

pH: 7.0

| CAS NO.   | COMPOUND                   | CONCENTRATION<br>(ug/L) | g |
|-----------|----------------------------|-------------------------|---|
| 51-28-5   | 2,4-Dinitrophenol          | 20                      | U |
| 100-02-7  | 4-Nitrophenol              | 20                      | U |
| 132-64-9  | Dibenzofuran               | 5                       | U |
| 121-14-2  | 2,4-Dinitrotoluene         | 5                       | U |
| 84-66-2   | Diethylphthalate           | 5                       | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 5                       | U |
| 86-73-7   | Fluorene                   | 5                       | U |
| 100-01-6  | 4-Nitroaniline             | 20                      | U |
| 534-52-1  | 4,6-Dinitro-2-methylphenol | 20                      | U |
| 86-30-6   | N-Nitrosodiphenylamine (1) | 5                       | U |
| 101-55-3  | 4-Bromophenyl-phenylether  | 5                       | U |
| 118-74-1  | Hexachlorobenzene          | 5                       | U |
| 87-86-5   | Pentachlorophenol          | 20                      | U |
| 85-01-8   | Phenanthrene               | 5                       | U |
| 120-12-7  | Anthracene                 | 5                       | U |
| 84-74-2   | Di-n-Butylphthalate        | 5                       | U |
| 206-44-0  | Fluoranthene               | 5                       | U |
| 129-00-0  | Pyrene                     | 5                       | U |
| 85-68-7   | Butylbenzylphthalate       | 5                       | U |
| 91-94-1   | 3,3'-Dichlorobenzidine     | 5                       | U |
| 56-55-3   | Benzo(a)Anthracene         | 5                       | U |
| 218-01-9  | Chrysene                   | 5                       | U |
| 117-81-7  | bis(2-Ethylhexyl)Phthalate | 5                       | U |
| 117-84-0  | Di-n-octylphthalate        | 5                       | U |
| 205-99-2  | Benzo(b)Fluoranthene       | 5                       | U |
| 207-08-9  | Benzo(k)Fluoranthene       | 5                       | U |
| 50-32-8   | Benzo(a)Pyrene             | 5                       | U |
| 193-39-5  | Indeno(1,2,3-cd)Pyrene     | 5                       | U |
| 53-70-3   | Dibenz(a,h)Anthracene      | 5                       | U |
| 191-24-2  | Benzo(g,h,i)Perylene       | 5                       | U |

(1) - Cannot be separated from Diphenylamine

1LCF  
LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO

EDCJ8

Lab Name: ENVIROSYSTEMS

Contract: 68-D7-0005

Lab Code: ENVSYS

Case No.: 27876

SAS No.:

SDG No.: EDCJ8

Lab Sample ID: 00030902

Date Received: 03/17/00

Lab File ID: S030902

Date Extracted: 03/22/00

Sample volume: 1000 (ml)

Date Analyzed: 03/28/00

Concentrated Extract Volume: 1000 (ul)

Dilution Factor: 1.0

Injection Volume: 1.0 (ul)

pH: 7.0

Number TICs found: 0

| CAS NUMBER | COMPOUND NAME | RT    | EST. CONC.<br>(ug/L) | Q     |
|------------|---------------|-------|----------------------|-------|
| =====      | =====         | ===== | =====                | ===== |

020362

1LCB  
 LOW CONC WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDCJ9

Name: ENVIROSYSTEMS

Contract: 68-D7-0005

Code: ENVSYS

Case No.: 27876

SAS No.:

SDG No.: EDCJB

Lab Sample ID: 00030922

Date Received: 03/18/00

Lab File ID: S030922

Date Extracted: 03/23/00

Sample volume: 1000 (ml)

Date Analyzed: 03/29/00

Concentrated Extract Volume: 1000 (ul)

Dilution Factor: 1.0

Injection Volume: 1.0 (ul)

pH: 7.0

| CAS NO.  | COMPOUND                     | CONCENTRATION<br>(ug/L) | Q |
|----------|------------------------------|-------------------------|---|
| 108-95-2 | Phenol                       | 5                       | U |
| 111-44-4 | bis(2-Chloroethyl)Ether      | 5                       | U |
| 95-57-8  | 2-Chlorophenol               | 5                       | U |
| 95-48-7  | 2-Methylphenol               | 5                       | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 5                       | U |
| 106-44-5 | 4-Methylphenol               | 5                       | U |
| 621-64-7 | N-Nitroso-Di-n-Propylamine   | 5                       | U |
| 67-72-1  | Hexachloroethane             | 5                       | U |
| 98-95-3  | Nitrobenzene                 | 5                       | U |
| 78-59-1  | Isophorone                   | 5                       | U |
| 88-75-5  | 2-Nitrophenol                | 5                       | U |
| 105-67-9 | 2,4-Dimethylphenol           | 5                       | U |
| 111-91-1 | bis(2-Chloroethoxy)Methane   | 5                       | U |
| 120-83-2 | 2,4-Dichlorophenol           | 5                       | U |
| 91-20-3  | Naphthalene                  | 5                       | U |
| 106-47-8 | 4-Chloroaniline              | 5                       | U |
| 87-68-3  | Hexachlorobutadiene          | 5                       | U |
| 59-50-7  | 4-Chloro-3-Methylphenol      | 5                       | U |
| 91-57-6  | 2-Methylnaphthalene          | 5                       | U |
| 77-47-4  | Hexachlorocyclopentadiene    | 5                       | U |
| 88-06-2  | 2,4,6-Trichlorophenol        | 5                       | U |
| 95-95-4  | 2,4,5-Trichlorophenol        | 20                      | U |
| 91-58-7  | 2-Chloronaphthalene          | 5                       | U |
| 88-74-4  | 2-Nitroaniline               | 20                      | U |
| 131-11-3 | Dimethylphthalate            | 5                       | U |
| 208-96-8 | Acenaphthylene               | 5                       | U |
| 606-20-2 | 2,6-Dinitrotoluene           | 5                       | U |
| 99-09-2  | 3-Nitroaniline               | 20                      | U |
| 83-32-9  | Acenaphthene                 | 5                       | U |

1LCC  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDCJ9

Lab Name: ENVIROSYSTEMS

Contract: 68-D7-0005

Lab Code: ENVSYS

Case No.: 27876

SAS No.:

SDG No.: EDCJB

Lab Sample ID: 00030922

Date Received: 03/18/00

Lab File ID: S030922

Date Extracted: 03/23/00

Sample volume: 1000 (ml)

Date Analyzed: 03/29/00

Concentrated Extract Volume: 1000 (ul)

Dilution Factor: 1.0

Injection Volume: 1.0 (ul)

pH: 7.0

| CAS NO.   | COMPOUND                   | CONCENTRATION<br>(ug/L) | g |
|-----------|----------------------------|-------------------------|---|
| 51-28-5   | 2,4-Dinitrophenol          | 20                      | U |
| 100-02-7  | 4-Nitrophenol              | 20                      | U |
| 132-64-9  | Dibenzofuran               | 5                       | U |
| 121-14-2  | 2,4-Dinitrotoluene         | 5                       | U |
| 84-66-2   | Diethylphthalate           | 5                       | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 5                       | U |
| 86-73-7   | Fluorene                   | 5                       | U |
| 100-01-6  | 4-Nitroaniline             | 20                      | U |
| 534-52-1  | 4,6-Dinitro-2-methylphenol | 20                      | U |
| 86-30-6   | N-Nitrosodiphenylamine (1) | 5                       | U |
| 101-55-3  | 4-Bromophenyl-phenylether  | 5                       | U |
| 118-74-1  | Hexachlorobenzene          | 5                       | U |
| 87-86-5   | Pentachlorophenol          | 20                      | U |
| 85-01-8   | Phenanthrene               | 5                       | U |
| 120-12-7  | Anthracene                 | 5                       | U |
| 84-74-2   | Di-n-Butylphthalate        | 5                       | U |
| 206-44-0  | Fluoranthene               | 5                       | U |
| 129-00-0  | Pyrene                     | 5                       | U |
| 85-68-7   | Butylbenzylphthalate       | 5                       | U |
| 91-94-1   | 3,3'-Dichlorobenzidine     | 5                       | U |
| 56-55-3   | Benzo(a)Anthracene         | 5                       | U |
| 218-01-9  | Chrysene                   | 5                       | U |
| 117-81-7  | bis(2-Ethylhexyl)Phthalate | 5                       | U |
| 117-84-0  | Di-n-octylphthalate        | 5                       | U |
| 205-99-2  | Benzo(b)Fluoranthene       | 5                       | U |
| 207-08-9  | Benzo(k)Fluoranthene       | 5                       | U |
| 50-32-8   | Benzo(a)Pyrene             | 5                       | U |
| 193-39-5  | Indeno(1,2,3-cd)Pyrene     | 5                       | U |
| 53-70-3   | Dibenz(a,h)Anthracene      | 5                       | U |
| 191-24-2  | Benzo(g,h,i)Perylene       | 5                       | U |

(1) - Cannot be separated from Diphenylamine

1LCF  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO

EDCJ9

Lab Name: ENVIROSYSTEMS

Contract: 68-D7-0005

Lab Code: ENVSYS

Case No.: 27876

SAS No.:

SDG No.: EDCJ8

Lab Sample ID: 00030922

Date Received: 03/18/00

Lab File ID: S030922

Date Extracted: 03/23/00

Sample volume: 1000 (ml)

Date Analyzed: 03/29/00

Concentrated Extract Volume: 1000 (ul)

Dilution Factor: 1.0

Injection Volume: 1.0 (ul)

pH: 7.0

Number TICs found: 0

| CAS NUMBER | COMPOUND NAME | RT    | EST. CONC.<br>(ug/L) | Q     |
|------------|---------------|-------|----------------------|-------|
| =====      | =====         | ===== | =====                | ===== |
|            |               |       |                      |       |

EDCKO

Lab Name: ENVIROSYSTEMS

Contract: 68-D7-0005

Lab Code: ENVSYS

Case No.: 27876

SAS No.:

SDG No.: EDCJ8

Lab Sample ID: 00030903

Date Received: 03/17/00

Lab File ID: S030903

Date Extracted: 03/22/00

Sample volume: 1000 (ml)

Date Analyzed: 03/28/00

Concentrated Extract Volume: 1000 (ul)

Dilution Factor: 1.0

Injection Volume: 1.0 (ul)

pH: 7.0

| CAS NO.  | COMPOUND                     | CONCENTRATION<br>(ug/L) | Q |
|----------|------------------------------|-------------------------|---|
| 108-95-2 | Phenol                       | 5                       | U |
| 111-44-4 | bis(2-Chloroethyl)Ether      | 5                       | U |
| 95-57-8  | 2-Chlorophenol               | 5                       | U |
| 95-48-7  | 2-Methylphenol               | 5                       | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 5                       | U |
| 106-44-5 | 4-Methylphenol               | 5                       | U |
| 621-64-7 | N-Nitroso-Di-n-Propylamine   | 5                       | U |
| 67-72-1  | Hexachloroethane             | 5                       | U |
| 98-95-3  | Nitrobenzene                 | 5                       | U |
| 78-59-1  | Isophorone                   | 5                       | U |
| 88-75-5  | 2-Nitrophenol                | 5                       | U |
| 105-67-9 | 2,4-Dimethylphenol           | 5                       | U |
| 111-91-1 | bis(2-Chloroethoxy)Methane   | 5                       | U |
| 120-83-2 | 2,4-Dichlorophenol           | 5                       | U |
| 91-20-3  | Naphthalene                  | 5                       | U |
| 106-47-8 | 4-Chloroaniline              | 5                       | U |
| 87-68-3  | Hexachlorobutadiene          | 5                       | U |
| 59-50-7  | 4-Chloro-3-Methylphenol      | 5                       | U |
| 91-57-6  | 2-Methylnaphthalene          | 5                       | U |
| 77-47-4  | Hexachlorocyclopentadiene    | 5                       | U |
| 88-06-2  | 2,4,6-Trichlorophenol        | 5                       | U |
| 95-95-4  | 2,4,5-Trichlorophenol        | 20                      | U |
| 91-58-7  | 2-Chloronaphthalene          | 5                       | U |
| 88-74-4  | 2-Nitroaniline               | 20                      | U |
| 131-11-3 | Dimethylphthalate            | 5                       | U |
| 208-96-8 | Acenaphthylene               | 5                       | U |
| 606-20-2 | 2,6-Dinitrotoluene           | 5                       | U |
| 99-09-2  | 3-Nitroaniline               | 20                      | U |
| 83-32-9  | Acenaphthene                 | 5                       | U |

1LCC  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: ENVIROSYSTEMS

Contract: 68-D7-0005

EDCKO

Lab Code: ENVSYS

Case No.: 27876

SAS No.:

SDG No.: EDCJ8

Lab Sample ID: 00030903

Date Received: 03/17/00

Lab File ID: S030903

Date Extracted: 03/22/00

Sample volume: 1000 (ml)

Date Analyzed: 03/28/00

Concentrated Extract Volume: 1000 (ul)

Dilution Factor: 1.0

Injection Volume: 1.0 (ul)

pH: 7.0

| CAS NO.   | COMPOUND                   | CONCENTRATION (ug/L) | g |
|-----------|----------------------------|----------------------|---|
| 51-28-5   | 2,4-Dinitrophenol          | 20                   | U |
| 100-02-7  | 4-Nitrophenol              | 20                   | U |
| 132-64-9  | Dibenzofuran               | 5                    | U |
| 121-14-2  | 2,4-Dinitrotoluene         | 5                    | U |
| 84-66-2   | Diethylphthalate           | 5                    | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 5                    | U |
| 86-73-7   | Fluorene                   | 5                    | U |
| 100-01-6  | 4-Nitroaniline             | 20                   | U |
| 534-52-1  | 4,6-Dinitro-2-methylphenol | 20                   | U |
| 86-30-6   | N-Nitrosodiphenylamine (1) | 5                    | U |
| 101-55-3  | 4-Bromophenyl-phenylether  | 5                    | U |
| 118-74-1  | Hexachlorobenzene          | 5                    | U |
| 87-86-5   | Pentachlorophenol          | 20                   | U |
| 85-01-8   | Phenanthrene               | 5                    | U |
| 120-12-7  | Anthracene                 | 5                    | U |
| 84-74-2   | Di-n-Butylphthalate        | 5                    | U |
| 206-44-0  | Fluoranthene               | 5                    | U |
| 129-00-0  | Pyrene                     | 5                    | U |
| 85-68-7   | Butylbenzylphthalate       | 5                    | U |
| 91-94-1   | 3,3'-Dichlorobenzidine     | 5                    | U |
| 56-55-3   | Benzo(a)Anthracene         | 5                    | U |
| 218-01-9  | Chrysene                   | 5                    | U |
| 117-81-7  | bis(2-Ethylhexyl)Phthalate | 5                    | U |
| 117-84-0  | Di-n-octylphthalate        | 5                    | U |
| 205-99-2  | Benzo(b)Fluoranthene       | 5                    | U |
| 207-08-9  | Benzo(k)Fluoranthene       | 5                    | U |
| 50-32-8   | Benzo(a)Pyrene             | 5                    | U |
| 193-39-5  | Indeno(1,2,3-cd)Pyrene     | 5                    | U |
| 53-70-3   | Dibenz(a,h)Anthracene      | 5                    | U |
| 191-24-2  | Benzo(g,h,i)Perylene       | 5                    | U |

(1) - Cannot be separated from Diphenylamine

1LCF  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO

EDCKO

Lab Name: ENVIROSYSTEMS                      Contract: 68-D7-0005

Lab Code: ENVSYS      Case No.: 27876      SAS No.:                      SDG No.: EDCJB

Lab Sample ID: 00030903                      Date Received: 03/17/00

Lab File ID: S030903                      Date Extracted: 03/22/00

Sample volume: 1000 (ml)                      Date Analyzed: 03/28/00

Concentrated Extract Volume: 1000 (ul)                      Dilution Factor: 1.0

Injection Volume: 1.0 (ul)                      pH: 7.0

Number TICs found: 0

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC.<br>(ug/L) | Q |
|------------|---------------|----|----------------------|---|
|            |               |    |                      |   |

1LCB  
 LOW CONC WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

EDCK1

Lab Name: ENVIROSYSTEMS

Contract: 68-D7-0005

Lab Code: ENVSYS

Case No.: 27876

SAS No.:

SDG No.: EDCJ8

Lab Sample ID: 00030904

Date Received: 03/17/00

Lab File ID: S030904

Date Extracted: 03/22/00

Sample volume: 1000 (ml)

Date Analyzed: 03/28/00

Concentrated Extract Volume: 1000 (ul)

Dilution Factor: 1.0

Injection Volume: 1.0 (ul)

pH: 6.0

| CAS NO.  | COMPOUND                     | CONCENTRATION<br>(ug/L) | Q |
|----------|------------------------------|-------------------------|---|
| 108-95-2 | Phenol                       | 5                       | U |
| 111-44-4 | bis(2-Chloroethyl)Ether      | 5                       | U |
| 95-57-8  | 2-Chlorophenol               | 5                       | U |
| 95-48-7  | 2-Methylphenol               | 5                       | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 5                       | U |
| 106-44-5 | 4-Methylphenol               | 5                       | U |
| 621-64-7 | N-Nitroso-Di-n-Propylamine   | 5                       | U |
| 67-72-1  | Hexachloroethane             | 5                       | U |
| 98-95-3  | Nitrobenzene                 | 5                       | U |
| 78-59-1  | Isophorone                   | 5                       | U |
| 88-75-5  | 2-Nitrophenol                | 5                       | U |
| 105-67-9 | 2,4-Dimethylphenol           | 5                       | U |
| 111-91-1 | bis(2-Chloroethoxy)Methane   | 5                       | U |
| 120-83-2 | 2,4-Dichlorophenol           | 5                       | U |
| 91-20-3  | Naphthalene                  | 5                       | U |
| 106-47-8 | 4-Chloroaniline              | 5                       | U |
| 87-68-3  | Hexachlorobutadiene          | 5                       | U |
| 59-50-7  | 4-Chloro-3-Methylphenol      | 5                       | U |
| 91-57-6  | 2-Methylnaphthalene          | 5                       | U |
| 77-47-4  | Hexachlorocyclopentadiene    | 5                       | U |
| 88-06-2  | 2,4,6-Trichlorophenol        | 5                       | U |
| 95-95-4  | 2,4,5-Trichlorophenol        | 20                      | U |
| 91-58-7  | 2-Chloronaphthalene          | 5                       | U |
| 88-74-4  | 2-Nitroaniline               | 20                      | U |
| 131-11-3 | Dimethylphthalate            | 5                       | U |
| 208-96-8 | Acenaphthylene               | 5                       | U |
| 606-20-2 | 2,6-Dinitrotoluene           | 5                       | U |
| 99-09-2  | 3-Nitroaniline               | 20                      | U |
| 83-32-9  | Acenaphthene                 | 5                       | U |

1LCC  
 W CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDCK1

Name: ENVIROSYSTEMS

Contract: 68-D7-0005

Code: ENVSYS

Case No.: 27876

SAS No.:

SDG No.: EDCJB

Sample ID: 00030904

Date Received: 03/17/00

File ID: S030904

Date Extracted: 03/22/00

Sample volume: 1000 (ml)

Date Analyzed: 03/28/00

Concentrated Extract Volume: 1000 (ul)

Dilution Factor: 1.0

Injection Volume: 1.0 (ul)

pH: 6.0

CONCENTRATION  
(ug/L) g

| CAS NO.   | COMPOUND                   | CONCENTRATION<br>(ug/L) | g |
|-----------|----------------------------|-------------------------|---|
| 51-28-5   | 2,4-Dinitrophenol          | 20                      | U |
| 100-02-7  | 4-Nitrophenol              | 20                      | U |
| 132-64-9  | Dibenzofuran               | 5                       | U |
| 121-14-2  | 2,4-Dinitrotoluene         | 5                       | U |
| 84-66-2   | Diethylphthalate           | 5                       | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 5                       | U |
| 86-73-7   | Fluorene                   | 5                       | U |
| 100-01-6  | 4-Nitroaniline             | 20                      | U |
| 534-52-1  | 4,6-Dinitro-2-methylphenol | 20                      | U |
| 86-30-6   | N-Nitrosodiphenylamine (1) | 5                       | U |
| 101-55-3  | 4-Bromophenyl-phenylether  | 5                       | U |
| 118-74-1  | Hexachlorobenzene          | 5                       | U |
| 87-86-5   | Pentachlorophenol          | 20                      | U |
| 85-01-8   | Phenanthrene               | 5                       | U |
| 120-12-7  | Anthracene                 | 5                       | U |
| 84-74-2   | Di-n-Butylphthalate        | 5                       | U |
| 206-44-0  | Fluoranthene               | 5                       | U |
| 129-00-0  | Pyrene                     | 5                       | U |
| 85-68-7   | Butylbenzylphthalate       | 5                       | U |
| 91-94-1   | 3,3'-Dichlorobenzidine     | 5                       | U |
| 56-55-3   | Benzo(a)Anthracene         | 5                       | U |
| 218-01-9  | Chrysene                   | 5                       | U |
| 117-81-7  | bis(2-Ethylhexyl)Phthalate | 5                       | U |
| 117-84-0  | Di-n-octylphthalate        | 5                       | U |
| 205-99-2  | Benzo(b)Fluoranthene       | 5                       | U |
| 207-08-9  | Benzo(k)Fluoranthene       | 5                       | U |
| 50-32-8   | Benzo(a)Pyrene             | 5                       | U |
| 193-39-5  | Indeno(1,2,3-cd)Pyrene     | 5                       | U |
| 53-70-3   | Dibenz(a,h)Anthracene      | 5                       | U |
| 191-24-2  | Benzo(g,h,i)Perylene       | 5                       | U |

(1) - Cannot be separated from Diphenylamine

1LCF  
LOW CONC WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO

EDCK2

NO

ab Name: ENVIROSYSTEMS Contract: 68-D7-0005  
ab Code: ENVSYS Case No.: 27876 SAS No.: SDG No.: EDCJB  
ab Sample ID: 00030905 Date Received: 03/17/00  
ab File ID: S030905 Date Extracted: 03/22/00  
Sample volume: 1000 (ml) Date Analyzed: 03/28/00  
Concentrated Extract Volume: 1000 (ul) Dilution Factor: 1.0  
Injection Volume: 1.0 (ul) pH: 7.0

Number TICs found: 0

| CAS NUMBER | COMPOUND NAME | RT    | EST. CONC.<br>(ug/L) | Q     |
|------------|---------------|-------|----------------------|-------|
| -----      | -----         | ----- | -----                | ----- |

1LCB  
LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

EDCK3

Lab Name: ENVIROSYSTEMS

Contract: 68-D7-0005

Lab Code: ENVSYS

Case No.: 27876

SAS No.:

SDG No.: EDCJ8

Lab Sample ID: 00030906

Date Received: 03/17/00

Lab File ID: S030906

Date Extracted: 03/22/00

Sample volume: 1000 (ml)

Date Analyzed: 03/28/00

Concentrated Extract Volume: 1000 (ul)

Dilution Factor: 1.0

Injection Volume: 1.0 (ul)

pH: 7.0

| CAS NO.  | COMPOUND                      | CONCENTRATION<br>(ug/L) | Q |
|----------|-------------------------------|-------------------------|---|
| 108-95-2 | Phenol                        | 5                       | U |
| 111-44-4 | bis(2-Chloroethyl)Ether       | 5                       | U |
| 95-57-8  | 2-Chlorophenol                | 5                       | U |
| 95-48-7  | 2-Methylphenol                | 5                       | U |
| 108-60-1 | 2, 2'-oxybis(1-Chloropropane) | 5                       | U |
| 106-44-5 | 4-Methylphenol                | 5                       | U |
| 621-64-7 | N-Nitroso-Di-n-Propylamine    | 5                       | U |
| 67-72-1  | Hexachloroethane              | 5                       | U |
| 98-95-3  | Nitrobenzene                  | 5                       | U |
| 78-59-1  | Isophorone                    | 5                       | U |
| 88-75-5  | 2-Nitrophenol                 | 5                       | U |
| 105-67-9 | 2, 4-Dimethylphenol           | 5                       | U |
| 111-91-1 | bis(2-Chloroethoxy)Methane    | 5                       | U |
| 120-83-2 | 2, 4-Dichlorophenol           | 5                       | U |
| 91-20-3  | Naphthalene                   | 5                       | U |
| 106-47-8 | 4-Chloroaniline               | 5                       | U |
| 87-68-3  | Hexachlorobutadiene           | 5                       | U |
| 59-50-7  | 4-Chloro-3-Methylphenol       | 5                       | U |
| 91-57-6  | 2-Methylnaphthalene           | 5                       | U |
| 77-47-4  | Hexachlorocyclopentadiene     | 5                       | U |
| 88-06-2  | 2, 4, 6-Trichlorophenol       | 5                       | U |
| 95-95-4  | 2, 4, 5-Trichlorophenol       | 20                      | U |
| 91-58-7  | 2-Chloronaphthalene           | 5                       | U |
| 88-74-4  | 2-Nitroaniline                | 20                      | U |
| 131-11-3 | Dimethylphthalate             | 5                       | U |
| 208-96-8 | Acenaphthylene                | 5                       | U |
| 606-20-2 | 2, 6-Dinitrotoluene           | 5                       | U |
| 99-09-2  | 3-Nitroaniline                | 20                      | U |
| 83-32-9  | Acenaphthene                  | 5                       | U |

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EDCK3

Lab Name: ENVIROSYSTEMS

Contract: 68-D7-0005

Lab Code: ENVSYS

Case No.: 27876

SAS No.:

SDG No.: EDCJB

Lab Sample ID: 00030906

Date Received: 03/17/00

Lab File ID: S030906

Date Extracted: 03/22/00

Sample volume: 1000 (ml)

Date Analyzed: 03/28/00

Concentrated Extract Volume: 1000 (ul)

Dilution Factor: 1.0

Injection Volume: 1.0 (ul)

pH: 7.0

| CAS NO.   | COMPOUND                   | CONCENTRATION (ug/L) | g |
|-----------|----------------------------|----------------------|---|
| 51-28-5   | 2,4-Dinitrophenol          | 20                   | U |
| 100-02-7  | 4-Nitrophenol              | 20                   | U |
| 132-64-9  | Dibenzofuran               | 5                    | U |
| 121-14-2  | 2,4-Dinitrotoluene         | 5                    | U |
| 84-66-2   | Diethylphthalate           | 5                    | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 5                    | U |
| 86-73-7   | Fluorene                   | 5                    | U |
| 100-01-6  | 4-Nitroaniline             | 20                   | U |
| 534-52-1  | 4,6-Dinitro-2-methylphenol | 20                   | U |
| 86-30-6   | N-Nitrosodiphenylamine (1) | 5                    | U |
| 101-55-3  | 4-Bromophenyl-phenylether  | 5                    | U |
| 118-74-1  | Hexachlorobenzene          | 5                    | U |
| 87-86-5   | Pentachlorophenol          | 20                   | U |
| 85-01-8   | Phenanthrene               | 5                    | U |
| 120-12-7  | Anthracene                 | 5                    | U |
| 84-74-2   | Di-n-Butylphthalate        | 5                    | U |
| 206-44-0  | Fluoranthene               | 5                    | U |
| 129-00-0  | Pyrene                     | 5                    | U |
| 85-68-7   | Butylbenzylphthalate       | 5                    | U |
| 91-94-1   | 3,3'-Dichlorobenzidine     | 5                    | U |
| 56-55-3   | Benzo(a)Anthracene         | 5                    | U |
| 218-01-9  | Chrysene                   | 5                    | U |
| 117-81-7  | bis(2-Ethylhexyl)Phthalate | 5                    | U |
| 117-84-0  | Di-n-octylphthalate        | 5                    | U |
| 205-99-2  | Benzo(b)Fluoranthene       | 5                    | U |
| 207-08-9  | Benzo(k)Fluoranthene       | 5                    | U |
| 50-32-8   | Benzo(a)Pyrene             | 5                    | U |
| 193-39-5  | Indeno(1,2,3-cd)Pyrene     | 5                    | U |
| 53-70-3   | Dibenz(a,h)Anthracene      | 5                    | U |
| 191-24-2  | Benzo(g,h,i)Perylene       | 5                    | U |

(1) - Cannot be separated from Diphenylamine

1LCF  
LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO

EDCK3

Lab Name: ENVIROSYSTEMS

Contract: 68-D7-0005

Lab Code: ENVSYS

Case No.: 27876

SAS No.:

SDG No.: EDCJ8

Lab Sample ID: 00030906

Date Received: 03/17/00

Lab File ID: S030906

Date Extracted: 03/22/00

Sample volume: 1000 (ml)

Date Analyzed: 03/28/00

Concentrated Extract Volume: 1000 (ul)

Dilution Factor: 1.0

Injection Volume: 1.0 (ul)

pH: 7.0

Number TICs found: 0

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC.<br>(ug/L) | Q |
|------------|---------------|----|----------------------|---|
|            |               |    |                      |   |

## LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EDCK4

Lab Name: ENVIROSYSTEMS

Contract: 68-D7-0005

Lab Code: ENVSYS

Case No.: 27876

SAS No.:

SDG No.: EDCJB

Lab Sample ID: 00030907

Date Received: 03/17/00

Lab File ID: S030907

Date Extracted: 03/22/00

Sample volume: 1000 (ml)

Date Analyzed: 03/28/00

Concentrated Extract Volume: 1000 (ul)

Dilution Factor: 1.0

Injection Volume: 1.0 (ul)

pH: 7.0

| CAS NO.  | COMPOUND                     | CONCENTRATION<br>(ug/L) | Q |
|----------|------------------------------|-------------------------|---|
| 108-95-2 | Phenol                       | 5                       | U |
| 111-44-4 | bis(2-Chloroethyl)Ether      | 5                       | U |
| 95-57-8  | 2-Chlorophenol               | 5                       | U |
| 95-48-7  | 2-Methylphenol               | 5                       | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 5                       | U |
| 106-44-5 | 4-Methylphenol               | 5                       | U |
| 621-64-7 | N-Nitroso-Di-n-Propylamine   | 5                       | U |
| 67-72-1  | Hexachloroethane             | 5                       | U |
| 98-95-3  | Nitrobenzene                 | 5                       | U |
| 78-59-1  | Isophorone                   | 5                       | U |
| 88-75-5  | 2-Nitrophenol                | 5                       | U |
| 105-67-9 | 2,4-Dimethylphenol           | 5                       | U |
| 111-91-1 | bis(2-Chloroethoxy)Methane   | 5                       | U |
| 120-83-2 | 2,4-Dichlorophenol           | 5                       | U |
| 91-20-3  | Naphthalene                  | 5                       | U |
| 106-47-8 | 4-Chloroaniline              | 5                       | U |
| 87-68-3  | Hexachlorobutadiene          | 5                       | U |
| 59-50-7  | 4-Chloro-3-Methylphenol      | 5                       | U |
| 91-57-6  | 2-Methylnaphthalene          | 5                       | U |
| 77-47-4  | Hexachlorocyclopentadiene    | 5                       | U |
| 88-06-2  | 2,4,6-Trichlorophenol        | 5                       | U |
| 95-95-4  | 2,4,5-Trichlorophenol        | 20                      | U |
| 91-58-7  | 2-Chloronaphthalene          | 5                       | U |
| 88-74-4  | 2-Nitroaniline               | 20                      | U |
| 131-11-3 | Dimethylphthalate            | 5                       | U |
| 208-96-8 | Acenaphthylene               | 5                       | U |
| 606-20-2 | 2,6-Dinitrotoluene           | 5                       | U |
| 99-09-2  | 3-Nitroaniline               | 20                      | U |
| 83-32-9  | Acenaphthene                 | 5                       | U |

1LCC  
LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDCK4

Lab Name: ENVIROSYSTEMS

Contract: 68-D7-0005

Lab Code: ENVSYS

Case No.: 27876

SAS No.:

SDG No.: EDCJ8

Lab Sample ID: 00030907

Date Received: 03/17/00

Lab File ID: S030907

Date Extracted: 03/22/00

Sample volume: 1000 (ml)

Date Analyzed: 03/28/00

Concentrated Extract Volume: 1000 (ul)

Dilution Factor: 1.0

Injection Volume: 1.0 (ul)

pH: 7.0

| CAS NO.   | COMPOUND                   | CONCENTRATION<br>(ug/L) | Q |
|-----------|----------------------------|-------------------------|---|
| 51-28-5   | 2,4-Dinitrophenol          | 20                      | U |
| 100-02-7  | 4-Nitrophenol              | 20                      | U |
| 132-64-9  | Dibenzofuran               | 5                       | U |
| 121-14-2  | 2,4-Dinitrotoluene         | 5                       | U |
| 84-66-2   | Diethylphthalate           | 5                       | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 5                       | U |
| 86-73-7   | Fluorene                   | 5                       | U |
| 100-01-6  | 4-Nitroaniline             | 20                      | U |
| 534-52-1  | 4,6-Dinitro-2-methylphenol | 20                      | U |
| 86-30-6   | N-Nitrosodiphenylamine (1) | 5                       | U |
| 101-55-3  | 4-Bromophenyl-phenylether  | 5                       | U |
| 118-74-1  | Hexachlorobenzene          | 5                       | U |
| 87-86-5   | Pentachlorophenol          | 20                      | U |
| 85-01-8   | Phenanthrene               | 5                       | U |
| 120-12-7  | Anthracene                 | 5                       | U |
| 84-74-2   | Di-n-Butylphthalate        | 5                       | U |
| 206-44-0  | Fluoranthene               | 5                       | U |
| 129-00-0  | Pyrene                     | 5                       | U |
| 85-68-7   | Butylbenzylphthalate       | 5                       | U |
| 91-94-1   | 3,3'-Dichlorobenzidine     | 5                       | U |
| 56-55-3   | Benzo(a)Anthracene         | 5                       | U |
| 218-01-9  | Chrysene                   | 5                       | U |
| 117-81-7  | bis(2-Ethylhexyl)Phthalate | 5                       | U |
| 117-84-0  | Di-n-octylphthalate        | 5                       | U |
| 205-99-2  | Benzo(b)Fluoranthene       | 5                       | U |
| 207-08-9  | Benzo(k)Fluoranthene       | 5                       | U |
| 50-32-8   | Benzo(a)Pyrene             | 5                       | U |
| 193-39-5  | Indeno(1,2,3-cd)Pyrene     | 5                       | U |
| 53-70-3   | Dibenz(a,h)Anthracene      | 5                       | U |
| 191-24-2  | Benzo(g,h,i)Perylene       | 5                       | U |

(1) - Cannot be separated from Diphenylamine

1LCP  
LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO

EDCK4

Lab Name: ENVIROSYSTEMS

Contract: 68-D7-0005

Lab Code: ENVSYS

Case No.: 27876

SAS No.:

SDG No.: EDCJB

Lab Sample ID: 00030907

Date Received: 03/17/00

Lab File ID: S030907

Date Extracted: 03/22/00

Sample volume: 1000 (ml)

Date Analyzed: 03/28/00

Concentrated Extract Volume: 1000 (ul)

Dilution Factor: 1.0

Injection Volume: 1.0 (ul)

pH: 7.0

Number TICs found: 0

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC.<br>(ug/L) | Q |
|------------|---------------|----|----------------------|---|
|            |               |    |                      |   |

110B  
LOW CONC WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

EDCK5

Lab Name: ENVIROSYSTEMS

Contract: 68-D7-0005

Lab Code: ENVSYS

Case No.: 27876

SAS No.:

SDG No.: EDCJ8

Lab Sample ID: 00030908

Date Received: 03/17/00

Lab File ID: S030908

Date Extracted: 03/23/00

Sample volume: 1000 (ml)

Date Analyzed: 03/29/00

Concentrated Extract Volume: 1000 (ul)

Dilution Factor: 1.0

Injection Volume: 1.0 (ul)

pH: 6.0

| CAS NO.  | COMPOUND                     | CONCENTRATION<br>(ug/L)      Q |   |
|----------|------------------------------|--------------------------------|---|
| 108-95-2 | Phenol                       | 5                              | U |
| 111-44-4 | bis(2-Chloroethyl)Ether      | 5                              | U |
| 95-57-8  | 2-Chlorophenol               | 5                              | U |
| 95-48-7  | 2-Methylphenol               | 5                              | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 5                              | U |
| 106-44-5 | 4-Methylphenol               | 5                              | U |
| 621-64-7 | N-Nitroso-Di-n-Propylamine   | 5                              | U |
| 67-72-1  | Hexachloroethane             | 5                              | U |
| 98-95-3  | Nitrobenzene                 | 5                              | U |
| 78-59-1  | Isophorone                   | 5                              | U |
| 88-75-5  | 2-Nitrophenol                | 5                              | U |
| 105-67-9 | 2,4-Dimethylphenol           | 5                              | U |
| 111-91-1 | bis(2-Chloroethoxy)Methane   | 5                              | U |
| 120-83-2 | 2,4-Dichlorophenol           | 5                              | U |
| 91-20-3  | Naphthalene                  | 5                              | U |
| 106-47-8 | 4-Chloroaniline              | 5                              | U |
| 87-68-3  | Hexachlorobutadiene          | 5                              | U |
| 59-50-7  | 4-Chloro-3-Methylphenol      | 5                              | U |
| 91-57-6  | 2-Methylnaphthalene          | 5                              | U |
| 77-47-4  | Hexachlorocyclopentadiene    | 5                              | U |
| 88-06-2  | 2,4,6-Trichlorophenol        | 5                              | U |
| 95-95-4  | 2,4,5-Trichlorophenol        | 20                             | U |
| 91-58-7  | 2-Chloronaphthalene          | 5                              | U |
| 88-74-4  | 2-Nitroaniline               | 20                             | U |
| 131-11-3 | Dimethylphthalate            | 5                              | U |
| 208-96-8 | Acenaphthylene               | 5                              | U |
| 606-20-2 | 2,6-Dinitrotoluene           | 5                              | U |
| 99-09-2  | 3-Nitroaniline               | 20                             | U |
| 83-32-9  | Acenaphthene                 | 5                              | U |

1100  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDCK5

Lab Name: ENVIROSYSTEMS

Contract: 68-D7-0005

Lab Code: ENVSYS

Case No.: 27876

SAS No.:

SDG No.: EDCJ8

Lab Sample ID: 00030908

Date Received: 03/17/00

Lab File ID: S030908

Date Extracted: 03/23/00

Sample volume: 1000 (ml)

Date Analyzed: 03/29/00

Concentrated Extract Volume: 1000 (ul)

Dilution Factor: 1.0

Injection Volume: 1.0 (ul)

pH: 6.0

| CAS NO.   | COMPOUND                   | CONCENTRATION<br>(ug/L) | Q |
|-----------|----------------------------|-------------------------|---|
| 51-28-5   | 2,4-Dinitrophenol          | 20                      | U |
| 100-02-7  | 4-Nitrophenol              | 20                      | U |
| 132-64-9  | Dibenzofuran               | 5                       | U |
| 121-14-2  | 2,4-Dinitrotoluene         | 5                       | U |
| 84-66-2   | Diethylphthalate           | 5                       | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 5                       | U |
| 86-73-7   | Fluorene                   | 5                       | U |
| 100-01-6  | 4-Nitroaniline             | 20                      | U |
| 534-52-1  | 4,6-Dinitro-2-methylphenol | 20                      | U |
| 86-30-6   | N-Nitrosodiphenylamine (1) | 5                       | U |
| 101-55-3  | 4-Bromophenyl-phenylether  | 5                       | U |
| 118-74-1  | Hexachlorobenzene          | 5                       | U |
| 87-86-5   | Pentachlorophenol          | 20                      | U |
| 85-01-8   | Phenanthrene               | 5                       | U |
| 120-12-7  | Anthracene                 | 5                       | U |
| 84-74-2   | Di-n-Butylphthalate        | 5                       | U |
| 206-44-0  | Fluoranthene               | 5                       | U |
| 129-00-0  | Pyrene                     | 5                       | U |
| 85-68-7   | Butylbenzylphthalate       | 5                       | U |
| 91-94-1   | 3,3'-Dichlorobenzidine     | 5                       | U |
| 56-55-3   | Benzo(a)Anthracene         | 5                       | U |
| 218-01-9  | Chrysene                   | 5                       | U |
| 117-81-7  | bis(2-Ethylhexyl)Phthalate | 5                       | U |
| 117-84-0  | Di-n-octylphthalate        | 5                       | U |
| 205-99-2  | Benzo(b)Fluoranthene       | 5                       | U |
| 207-08-9  | Benzo(k)Fluoranthene       | 5                       | U |
| 50-32-8   | Benzo(a)Pyrene             | 5                       | U |
| 193-39-5  | Indeno(1,2,3-cd)Pyrene     | 5                       | U |
| 53-70-3   | Dibenz(a,h)Anthracene      | 5                       | U |
| 191-24-2  | Benzo(g,h,i)Perylene       | 5                       | U |

(1) - Cannot be separated from Diphenylamine

11452

1LCF  
LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EDCK5

Lab Name: ENVIROSYSTEMS Contract: 68-D7-0005  
Lab Code: ENVSYS Case No.: 27876 SAS No.: SDG No.: EDCJ8  
Lab Sample ID: 00030908 Date Received: 03/17/00  
Lab File ID: S030908 Date Extracted: 03/23/00  
Sample volume: 1000 (ml) Date Analyzed: 03/29/00  
Concentrated Extract Volume: 1000 (ul) Dilution Factor: 1.0  
Injection Volume: 1.0 (ul) pH: 6.0

Number TICs found: 0

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC.<br>(ug/L) | Q |
|------------|---------------|----|----------------------|---|
|            |               |    |                      |   |

## LOW CONC WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EDCK6

Lab Name: ENVIROSYSTEMS

Contract: 68-D7-0005

Lab Code: ENVSYS

Case No.: 27876

SAS No.:

SDG No.: EDCJ8

Lab Sample ID: 00030909

Date Received: 03/17/00

Lab File ID: S030909

Date Extracted: 03/23/00

Sample volume: 1000 (ml)

Date Analyzed: 03/29/00

Concentrated Extract Volume: 1000 (ul)

Dilution Factor: 1.0

Injection Volume: 1.0 (ul)

pH: 6.0

| CAS NO.  | COMPOUND                     | CONCENTRATION<br>(ug/L) | Q |
|----------|------------------------------|-------------------------|---|
| 108-95-2 | Phenol                       | 5                       | U |
| 111-44-4 | bis(2-Chloroethyl)Ether      | 5                       | U |
| 95-57-8  | 2-Chlorophenol               | 5                       | U |
| 95-48-7  | 2-Methylphenol               | 5                       | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 5                       | U |
| 106-44-5 | 4-Methylphenol               | 5                       | U |
| 621-64-7 | N-Nitroso-Di-n-Propylamine   | 5                       | U |
| 67-72-1  | Hexachloroethane             | 5                       | U |
| 98-95-3  | Nitrobenzene                 | 5                       | U |
| 78-59-1  | Isophorone                   | 5                       | U |
| 88-75-5  | 2-Nitrophenol                | 5                       | U |
| 105-67-9 | 2,4-Dimethylphenol           | 5                       | U |
| 111-91-1 | bis(2-Chloroethoxy)Methane   | 5                       | U |
| 120-83-2 | 2,4-Dichlorophenol           | 5                       | U |
| 91-20-3  | Naphthalene                  | 5                       | U |
| 106-47-8 | 4-Chloroaniline              | 5                       | U |
| 87-68-3  | Hexachlorobutadiene          | 5                       | U |
| 59-50-7  | 4-Chloro-3-Methylphenol      | 5                       | U |
| 91-57-6  | 2-Methylnaphthalene          | 5                       | U |
| 77-47-4  | Hexachlorocyclopentadiene    | 5                       | U |
| 88-06-2  | 2,4,6-Trichlorophenol        | 5                       | U |
| 95-95-4  | 2,4,5-Trichlorophenol        | 20                      | U |
| 91-58-7  | 2-Chloronaphthalene          | 5                       | U |
| 88-74-4  | 2-Nitroaniline               | 20                      | U |
| 131-11-3 | Dimethylphthalate            | 5                       | U |
| 208-96-8 | Acenaphthylene               | 5                       | U |
| 606-20-2 | 2,6-Dinitrotoluene           | 5                       | U |
| 99-09-2  | 3-Nitroaniline               | 20                      | U |
| 83-32-9  | Acenaphthene                 | 5                       | U |

1LCC  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

EDCK6

Lab Name: ENVIROSYSTEMS

Contract: 68-D7-0005

Lab Code: ENVSYS

Case No.: 27876

SAS No.:

SDG No.: EDCJ8

Lab Sample ID: 00030909

Date Received: 03/17/00

Lab File ID: S030909

Date Extracted: 03/23/00

Sample volume: 1000 (ml)

Date Analyzed: 03/29/00

Concentrated Extract Volume: 1000 (ul)

Dilution Factor: 1.0

Injection Volume: 1.0 (ul)

pH: 6.0

| CAS NO.   | COMPOUND                   | CONCENTRATION<br>(ug/L) | Q |
|-----------|----------------------------|-------------------------|---|
| 51-28-5   | 2,4-Dinitrophenol          | 20                      | U |
| 100-02-7  | 4-Nitrophenol              | 20                      | U |
| 132-64-9  | Dibenzofuran               | 5                       | U |
| 121-14-2  | 2,4-Dinitrotoluene         | 5                       | U |
| 84-66-2   | Diethylphthalate           | 5                       | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 5                       | U |
| 86-73-7   | Fluorene                   | 5                       | U |
| 100-01-6  | 4-Nitroaniline             | 20                      | U |
| 534-52-1  | 4,6-Dinitro-2-methylphenol | 20                      | U |
| 86-30-6   | N-Nitrosodiphenylamine (1) | 5                       | U |
| 101-55-3  | 4-Bromophenyl-phenylether  | 5                       | U |
| 118-74-1  | Hexachlorobenzene          | 5                       | U |
| 87-86-5   | Pentachlorophenol          | 20                      | U |
| 85-01-8   | Phenanthrene               | 5                       | U |
| 120-12-7  | Anthracene                 | 5                       | U |
| 84-74-2   | Di-n-Butylphthalate        | 5                       | U |
| 206-44-0  | Fluoranthene               | 5                       | U |
| 129-00-0  | Pyrene                     | 5                       | U |
| 85-68-7   | Butylbenzylphthalate       | 5                       | U |
| 91-94-1   | 3,3'-Dichlorobenzidine     | 5                       | U |
| 56-55-3   | Benzo(a)Anthracene         | 5                       | U |
| 218-01-9  | Chrysene                   | 5                       | U |
| 117-81-7  | bis(2-Ethylhexyl)Phthalate | 5                       | U |
| 117-84-0  | Di-n-octylphthalate        | 5                       | U |
| 205-99-2  | Benzo(b)Fluoranthene       | 5                       | U |
| 207-08-9  | Benzo(k)Fluoranthene       | 5                       | U |
| 50-32-8   | Benzo(a)Pyrene             | 5                       | U |
| 193-39-5  | Indeno(1,2,3-cd)Pyrene     | 5                       | U |
| 53-70-3   | Dibenz(a,h)Anthracene      | 5                       | U |
| 191-24-2  | Benzo(g,h,i)Perylene       | 5                       | U |

(1) - Cannot be separated from Diphenylamine

024465

1LCF  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO

EDCK6

Lab Name: ENVIROSYSTEMS

Contract: 68-D7-0005

Lab Code: ENVSYS

Case No.: 27876

SAS No.:

SDG No.: EDCJB

Lab Sample ID: 00030909

Date Received: 03/17/00

Lab File ID: S030909

Date Extracted: 03/23/00

Sample volume: 1000 (ml)

Date Analyzed: 03/29/00

Concentrated Extract Volume: 1000 (ul)

Dilution Factor: 1.0

Injection Volume: 1.0 (ul)

pH: 6.0

Number TICs found: 0

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC.<br>(ug/L) | Q |
|------------|---------------|----|----------------------|---|
|            |               |    |                      |   |

1LCB  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDCK8

Lab Name: ENVIROSYSTEMS

Contract: 68-D7-0005

Lab Code: ENVSYS

Case No.: 27876

SAS No.:

SDG No.: EDCJ8

Lab Sample ID: 00030923

Date Received: 03/18/00

Lab File ID: S030923

Date Extracted: 03/23/00

Sample volume: 1000 (ml)

Date Analyzed: 03/29/00

Concentrated Extract Volume: 1000 (ul)

Dilution Factor: 1.0

Injection Volume: 1.0 (ul)

pH: 7.0

| CAS NO.  | COMPOUND                     | CONCENTRATION<br>(ug/L) | g |
|----------|------------------------------|-------------------------|---|
| 108-95-2 | Phenol                       | 5                       | U |
| 111-44-4 | bis(2-Chloroethyl)Ether      | 5                       | U |
| 95-57-8  | 2-Chlorophenol               | 5                       | U |
| 95-48-7  | 2-Methylphenol               | 5                       | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 5                       | U |
| 106-44-5 | 4-Methylphenol               | 5                       | U |
| 621-64-7 | N-Nitroso-Di-n-Propylamine   | 5                       | U |
| 67-72-1  | Hexachloroethane             | 5                       | U |
| 98-95-3  | Nitrobenzene                 | 5                       | U |
| 78-59-1  | Isophorone                   | 5                       | U |
| 88-75-5  | 2-Nitrophenol                | 5                       | U |
| 105-67-9 | 2,4-Dimethylphenol           | 5                       | U |
| 111-91-1 | bis(2-Chloroethoxy)Methane   | 5                       | U |
| 120-83-2 | 2,4-Dichlorophenol           | 5                       | U |
| 91-20-3  | Naphthalene                  | 5                       | U |
| 106-47-8 | 4-Chloroaniline              | 5                       | U |
| 87-68-3  | Hexachlorobutadiene          | 5                       | U |
| 59-50-7  | 4-Chloro-3-Methylphenol      | 5                       | U |
| 91-57-6  | 2-Methylnaphthalene          | 5                       | U |
| 77-47-4  | Hexachlorocyclopentadiene    | 5                       | U |
| 88-06-2  | 2,4,6-Trichlorophenol        | 5                       | U |
| 95-95-4  | 2,4,5-Trichlorophenol        | 20                      | U |
| 91-58-7  | 2-Chloronaphthalene          | 5                       | U |
| 88-74-4  | 2-Nitroaniline               | 20                      | U |
| 131-11-3 | Dimethylphthalate            | 5                       | U |
| 208-96-8 | Acenaphthylene               | 5                       | U |
| 606-20-2 | 2,6-Dinitrotoluene           | 5                       | U |
| 99-09-2  | 3-Nitroaniline               | 20                      | U |
| 83-32-9  | Acenaphthene                 | 5                       | U |

1100  
LOW CONC WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

EDCK8

Lab Name: ENVIROSYSTEMS

Contract: 68-D7-0005

Lab Code: ENVSYS

Case No.: 27876

SAS No.:

SDG No.: EDCJB

Lab Sample ID: 00030923

Date Received: 03/18/00

Lab File ID: S030923

Date Extracted: 03/23/00

Sample volume: 1000 (ml)

Date Analyzed: 03/29/00

Concentrated Extract Volume: 1000 (ul)

Dilution Factor: 1.0

Injection Volume: 1.0 (ul)

pH: 7.0

| CAS NO.   | COMPOUND                   | CONCENTRATION<br>(ug/L) | Q |
|-----------|----------------------------|-------------------------|---|
| 51-28-5   | 2,4-Dinitrophenol          | 20                      | U |
| 100-02-7  | 4-Nitrophenol              | 20                      | U |
| 132-64-9  | Dibenzofuran               | 5                       | U |
| 121-14-2  | 2,4-Dinitrotoluene         | 5                       | U |
| 84-66-2   | Diethylphthalate           | 5                       | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 5                       | U |
| 86-73-7   | Fluorene                   | 5                       | U |
| 100-01-6  | 4-Nitroaniline             | 20                      | U |
| 534-52-1  | 4,6-Dinitro-2-methylphenol | 20                      | U |
| 86-30-6   | N-Nitrosodiphenylamine (1) | 5                       | U |
| 101-55-3  | 4-Bromophenyl-phenylether  | 5                       | U |
| 118-74-1  | Hexachlorobenzene          | 5                       | U |
| 87-86-5   | Pentachlorophenol          | 20                      | U |
| 85-01-8   | Phenanthrene               | 5                       | U |
| 120-12-7  | Anthracene                 | 5                       | U |
| 84-74-2   | Di-n-Butylphthalate        | 5                       | U |
| 206-44-0  | Fluoranthene               | 5                       | U |
| 129-00-0  | Pyrene                     | 5                       | U |
| 85-68-7   | Butylbenzylphthalate       | 5                       | U |
| 91-94-1   | 3,3'-Dichlorobenzidine     | 5                       | U |
| 56-55-3   | Benzo(a)Anthracene         | 5                       | U |
| 218-01-9  | Chrysene                   | 5                       | U |
| 117-81-7  | bis(2-Ethylhexyl)Phthalate | 5                       | U |
| 117-84-0  | Di-n-octylphthalate        | 5                       | U |
| 205-99-2  | Benzo(b)Fluoranthene       | 5                       | U |
| 207-08-9  | Benzo(k)Fluoranthene       | 5                       | U |
| 50-32-8   | Benzo(a)Pyrene             | 5                       | U |
| 193-39-5  | Indeno(1,2,3-cd)Pyrene     | 5                       | U |
| 53-70-3   | Dibenz(a,h)Anthracene      | 5                       | U |
| 191-24-2  | Benzo(g,h,i)Perylene       | 5                       | U |

(1) - Cannot be separated from Diphenylamine

1LOF  
LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO

EDCK8

Lab Name: ENVIROSYSTEMS

Contract: 68-D7-0005

Lab Code: ENVSYS

Case No.: 27876

SAS No.:

SDG No.: EDCJ8

Lab Sample ID: 00030923

Date Received: 03/18/00

Lab File ID: S030923

Date Extracted: 03/23/00

Sample volume: 1000 (ml)

Date Analyzed: 03/29/00

Concentrated Extract Volume: 1000 (ul)

Dilution Factor: 1.0

Injection Volume: 1.0 (ul)

pH: 7.0

Number TICs found: 0

| CAS NUMBER | COMPOUND NAME | RT    | EST. CONC.<br>(ug/L) | Q     |
|------------|---------------|-------|----------------------|-------|
| =====      | =====         | ===== | =====                | ===== |

020479

## LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: ENVIROSYSTEMS

Contract: 68-D7-0005

EDCK9

Lab Code: ENVSYS

Case No.: 27876

SAS No.:

SDG No.: EDCJB

Lab Sample ID: 00030910

Date Received: 03/17/00

Lab File ID: S030910

Date Extracted: 03/23/00

Sample volume: 1000 (ml)

Date Analyzed: 03/29/00

Concentrated Extract Volume: 1000 (ul)

Dilution Factor: 1.0

Injection Volume: 1.0 (ul)

pH: 7.0

| CAS NO.  | COMPOUND                     | CONCENTRATION<br>(ug/L) | Q |
|----------|------------------------------|-------------------------|---|
| 108-95-2 | Phenol                       | 5                       | U |
| 111-44-4 | bis(2-Chloroethyl)Ether      | 5                       | U |
| 95-57-8  | 2-Chlorophenol               | 5                       | U |
| 95-48-7  | 2-Methylphenol               | 5                       | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 5                       | U |
| 106-44-5 | 4-Methylphenol               | 5                       | U |
| 621-64-7 | N-Nitroso-Di-n-Propylamine   | 5                       | U |
| 67-72-1  | Hexachloroethane             | 5                       | U |
| 98-95-3  | Nitrobenzene                 | 5                       | U |
| 78-59-1  | Isophorone                   | 5                       | U |
| 88-75-5  | 2-Nitrophenol                | 5                       | U |
| 105-67-9 | 2,4-Dimethylphenol           | 5                       | U |
| 111-91-1 | bis(2-Chloroethoxy)Methane   | 5                       | U |
| 120-83-2 | 2,4-Dichlorophenol           | 5                       | U |
| 91-20-3  | Naphthalene                  | 5                       | U |
| 106-47-8 | 4-Chloroaniline              | 5                       | U |
| 87-68-3  | Hexachlorobutadiene          | 5                       | U |
| 59-50-7  | 4-Chloro-3-Methylphenol      | 5                       | U |
| 91-57-6  | 2-Methylnaphthalene          | 5                       | U |
| 77-47-4  | Hexachlorocyclopentadiene    | 5                       | U |
| 88-06-2  | 2,4,6-Trichlorophenol        | 5                       | U |
| 95-95-4  | 2,4,5-Trichlorophenol        | 20                      | U |
| 91-58-7  | 2-Chloronaphthalene          | 5                       | U |
| 88-74-4  | 2-Nitroaniline               | 20                      | U |
| 131-11-3 | Dimethylphthalate            | 5                       | U |
| 208-96-8 | Acenaphthylene               | 5                       | U |
| 606-20-2 | 2,6-Dinitrotoluene           | 5                       | U |
| 99-09-2  | 3-Nitroaniline               | 20                      | U |
| 83-32-9  | Acenaphthene                 | 5                       | U |

1LCC  
 LOW CONC WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDCK9

Lab Name: ENVIROSYSTEMS Contract: 68-D7-0005  
 Lab Code: ENVSYS Case No.: 27876 SAS No.: SDG No.: EDCJB  
 Lab Sample ID: 00030910 Date Received: 03/17/00  
 Lab File ID: S030910 Date Extracted: 03/23/00  
 Sample volume: 1000 (ml) Date Analyzed: 03/29/00  
 Concentrated Extract Volume: 1000 (ul) Dilution Factor: 1.0  
 Injection Volume: 1.0 (ul) pH: 7.0

| CAS NO.   | COMPOUND                   | CONCENTRATION<br>(ug/L) | Q |
|-----------|----------------------------|-------------------------|---|
| 51-28-5   | 2,4-Dinitrophenol          | 20                      | U |
| 100-02-7  | 4-Nitrophenol              | 20                      | U |
| 132-64-9  | Dibenzofuran               | 5                       | U |
| 121-14-2  | 2,4-Dinitrotoluene         | 5                       | U |
| 84-66-2   | Diethylphthalate           | 5                       | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 5                       | U |
| 86-73-7   | Fluorene                   | 5                       | U |
| 100-01-6  | 4-Nitroaniline             | 20                      | U |
| 534-52-1  | 4,6-Dinitro-2-methylphenol | 20                      | U |
| 86-30-6   | N-Nitrosodiphenylamine (1) | 5                       | U |
| 101-55-3  | 4-Bromophenyl-phenylether  | 5                       | U |
| 118-74-1  | Hexachlorobenzene          | 5                       | U |
| 87-86-5   | Pentachlorophenol          | 20                      | U |
| 85-01-8   | Phenanthrene               | 5                       | U |
| 120-12-7  | Anthracene                 | 5                       | U |
| 84-74-2   | Di-n-Butylphthalate        | 5                       | U |
| 206-44-0  | Fluoranthene               | 5                       | U |
| 129-00-0  | Pyrene                     | 5                       | U |
| 85-68-7   | Butylbenzylphthalate       | 32                      | B |
| 91-94-1   | 3,3'-Dichlorobenzidine     | 5                       | U |
| 56-55-3   | Benzo(a)Anthracene         | 5                       | U |
| 218-01-9  | Chrysene                   | 5                       | U |
| 117-81-7  | bis(2-Ethylhexyl)Phthalate | 5                       | U |
| 117-84-0  | Di-n-octylphthalate        | 5                       | U |
| 205-99-2  | Benzo(b)Fluoranthene       | 5                       | U |
| 207-08-9  | Benzo(k)Fluoranthene       | 5                       | U |
| 50-32-8   | Benzo(a)Pyrene             | 5                       | U |
| 193-39-5  | Indeno(1,2,3-cd)Pyrene     | 5                       | U |
| 53-70-3   | Dibenz(a,h)Anthracene      | 5                       | U |
| 191-24-2  | Benzo(g,h,i)Perylene       | 5                       | U |

(1) - Cannot be separated from Diphenylamine

1LCF  
LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EDCK9

Lab Name: ENVIROSYSTEMS

Contract: 68-D7-0005

Lab Code: ENVSYS

Case No.: 27876

SAS No.:

SDG No.: EDCJ8

Lab Sample ID: 00030910

Date Received: 03/17/00

Lab File ID: S030910

Date Extracted: 03/23/00

Sample volume: 1000 (ml)

Date Analyzed: 03/29/00

Concentrated Extract Volume: 1000 (ul)

Dilution Factor: 1.0

Injection Volume: 1.0 (ul)

pH: 7.0

Number TICs found: 0

| CAS NUMBER | COMPOUND NAME | RT    | EST. CONC.<br>(ug/L) | Q     |
|------------|---------------|-------|----------------------|-------|
| =====      | =====         | ===== | =====                | ===== |
|            |               |       |                      |       |

1LCB

## LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

EDCLO

Lab Name: ENVIROSYSTEMS

Contract: 68-D7-0005

Lab Code: ENVSYS

Case No.: 27876

SAS No.:

SDG No.: EDCJB

Lab Sample ID: 00030911

Date Received: 03/17/00

Lab File ID: S030911

Date Extracted: 03/23/00

Sample volume: 1000 (ml)

Date Analyzed: 03/29/00

Concentrated Extract Volume: 1000 (ul)

Dilution Factor: 1.0

Injection Volume: 1.0 (ul)

pH: 7.0

| CAS NO.  | COMPOUND                      | CONCENTRATION<br>(ug/L) | g |
|----------|-------------------------------|-------------------------|---|
| 108-95-2 | Phenol                        | 5                       | U |
| 111-44-4 | bis(2-Chloroethyl)Ether       | 5                       | U |
| 95-57-8  | 2-Chlorophenol                | 5                       | U |
| 95-48-7  | 2-Methylphenol                | 5                       | U |
| 108-60-1 | 2, 2'-oxybis(1-Chloropropane) | 5                       | U |
| 106-44-5 | 4-Methylphenol                | 5                       | U |
| 621-64-7 | N-Nitroso-Di-n-Propylamine    | 5                       | U |
| 67-72-1  | Hexachloroethane              | 5                       | U |
| 98-95-3  | Nitrobenzene                  | 5                       | U |
| 78-59-1  | Isophorone                    | 5                       | U |
| 88-75-5  | 2-Nitrophenol                 | 5                       | U |
| 105-67-9 | 2, 4-Dimethylphenol           | 5                       | U |
| 111-91-1 | bis(2-Chloroethoxy)Methane    | 5                       | U |
| 120-83-2 | 2, 4-Dichlorophenol           | 5                       | U |
| 91-20-3  | Naphthalene                   | 5                       | U |
| 106-47-8 | 4-Chloroaniline               | 5                       | U |
| 87-68-3  | Hexachlorobutadiene           | 5                       | U |
| 59-50-7  | 4-Chloro-3-Methylphenol       | 5                       | U |
| 91-57-6  | 2-Methylnaphthalene           | 5                       | U |
| 77-47-4  | Hexachlorocyclopentadiene     | 5                       | U |
| 88-06-2  | 2, 4, 6-Trichlorophenol       | 5                       | U |
| 95-95-4  | 2, 4, 5-Trichlorophenol       | 20                      | U |
| 91-58-7  | 2-Chloronaphthalene           | 5                       | U |
| 88-74-4  | 2-Nitroaniline                | 20                      | U |
| 131-11-3 | Dimethylphthalate             | 5                       | U |
| 208-96-8 | Acenaphthylene                | 5                       | U |
| 606-20-2 | 2, 6-Dinitrotoluene           | 5                       | U |
| 99-09-2  | 3-Nitroaniline                | 20                      | U |
| 83-32-9  | Acenaphthene                  | 5                       | U |

0211506

1LCC  
 LOW CONC WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

EDCLO

Lab Name: ENVIROSYSTEMS

Contract: 68-D7-0005

Lab Code: ENVSYS

Case No.: 27876

SAS No.:

SDG No.: EDCJB

Lab Sample ID: 00030911

Date Received: 03/17/00

Lab File ID: S030911

Date Extracted: 03/23/00

Sample volume: 1000 (ml)

Date Analyzed: 03/29/00

Concentrated Extract Volume: 1000 (ul)

Dilution Factor: 1.0

Injection Volume: 1.0 (ul)

pH: 7.0

| CAS NO.   | COMPOUND                   | CONCENTRATION (ug/L) | g  |
|-----------|----------------------------|----------------------|----|
| 51-28-5   | 2,4-Dinitrophenol          | 20                   | U  |
| 100-02-7  | 4-Nitrophenol              | 20                   | U  |
| 132-64-9  | Dibenzofuran               | 5                    | U  |
| 121-14-2  | 2,4-Dinitrotoluene         | 5                    | U  |
| 84-66-2   | Diethylphthalate           | 5                    | U  |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 5                    | U  |
| 86-73-7   | Fluorene                   | 5                    | U  |
| 100-01-6  | 4-Nitroaniline             | 20                   | U  |
| 534-52-1  | 4,6-Dinitro-2-methylphenol | 20                   | U  |
| 86-30-6   | N-Nitrosodiphenylamine (1) | 5                    | U  |
| 101-55-3  | 4-Bromophenyl-phenylether  | 5                    | U  |
| 118-74-1  | Hexachlorobenzene          | 5                    | U  |
| 87-86-5   | Pentachlorophenol          | 20                   | U  |
| 85-01-8   | Phenanthrene               | 5                    | U  |
| 120-12-7  | Anthracene                 | 5                    | U  |
| 84-74-2   | Di-n-Butylphthalate        | 5                    | U  |
| 206-44-0  | Fluoranthene               | 5                    | U  |
| 129-00-0  | Pyrene                     | 5                    | U  |
| 85-68-7   | Butylbenzylphthalate       | 26                   | BU |
| 91-94-1   | 3,3'-Dichlorobenzidine     | 5                    | U  |
| 56-55-3   | Benzo(a)Anthracene         | 5                    | U  |
| 218-01-9  | Chrysene                   | 5                    | U  |
| 117-81-7  | bis(2-Ethylhexyl)Phthalate | 5                    | U  |
| 117-84-0  | Di-n-octylphthalate        | 5                    | U  |
| 205-99-2  | Benzo(b)Fluoranthene       | 5                    | U  |
| 207-08-9  | Benzo(k)Fluoranthene       | 5                    | U  |
| 50-32-8   | Benzo(a)Pyrene             | 5                    | U  |
| 193-39-5  | Indeno(1,2,3-cd)Pyrene     | 5                    | U  |
| 53-70-3   | Dibenz(a,h)Anthracene      | 5                    | U  |
| 191-24-2  | Benzo(g,h,i)Perylene       | 5                    | U  |

*Wke*  
 4/4/00

(1) - Cannot be separated from Diphenylamine

1LCF  
LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

Lab Name: ENVIROSYSTEMS

Contract: 68-D7-0005

EDCLO

Lab Code: ENVSYS

Case No.: 27876

SAS No.:

SDG No.: EDCJB

Lab Sample ID: 00030911

Date Received: 03/17/00

Lab File ID: S030911

Date Extracted: 03/23/00

Sample volume: 1000 (ml)

Date Analyzed: 03/29/00

Concentrated Extract Volume: 1000 (ul)

Dilution Factor: 1.0

Injection Volume: 1.0 (ul)

pH: 7.0

Number TICs found: 0

| CAS NUMBER | COMPOUND NAME | RT    | EST. CONC.<br>(ug/L) | Q     |
|------------|---------------|-------|----------------------|-------|
| =====      | =====         | ===== | =====                | ===== |
|            |               |       |                      |       |

## LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Lab Name: ENVIROSYSTEMS

Contract: 68-D7-0005

EDCL4

Lab Code: ENVSYS Case No.: 27876

SAS No.:

SDG No.: EDCJ8

Lab Sample ID: 00030924

Date Received: 03/18/00

Lab File ID: S030924

Date Extracted: 03/22/00

Sample volume: 1000 (ml)

Date Analyzed: 03/28/00

Concentrated Extract Volume: 1000 (ul)

Dilution Factor: 1.0

Injection Volume: 1.0 (ul)

pH: 7.0

| CAS NO.  | COMPOUND                     | CONCENTRATION<br>(ug/L) | Q |
|----------|------------------------------|-------------------------|---|
| 108-95-2 | Phenol                       | 5                       | U |
| 111-44-4 | bis(2-Chloroethyl)Ether      | 5                       | U |
| 95-57-8  | 2-Chlorophenol               | 5                       | U |
| 95-48-7  | 2-Methylphenol               | 5                       | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 5                       | U |
| 106-44-5 | 4-Methylphenol               | 5                       | U |
| 621-64-7 | N-Nitroso-Di-n-Propylamine   | 5                       | U |
| 67-72-1  | Hexachloroethane             | 5                       | U |
| 98-95-3  | Nitrobenzene                 | 5                       | U |
| 78-59-1  | Isophorone                   | 5                       | U |
| 88-75-5  | 2-Nitrophenol                | 5                       | U |
| 105-67-9 | 2,4-Dimethylphenol           | 5                       | U |
| 111-91-1 | bis(2-Chloroethoxy)Methane   | 5                       | U |
| 120-83-2 | 2,4-Dichlorophenol           | 5                       | U |
| 91-20-3  | Naphthalene                  | 5                       | U |
| 106-47-8 | 4-Chloroaniline              | 5                       | U |
| 87-68-3  | Hexachlorobutadiene          | 5                       | U |
| 59-50-7  | 4-Chloro-3-Methylphenol      | 5                       | U |
| 91-57-6  | 2-Methylnaphthalene          | 5                       | U |
| 77-47-4  | Hexachlorocyclopentadiene    | 5                       | U |
| 88-06-2  | 2,4,6-Trichlorophenol        | 5                       | U |
| 95-95-4  | 2,4,5-Trichlorophenol        | 20                      | U |
| 91-58-7  | 2-Chloronaphthalene          | 5                       | U |
| 88-74-4  | 2-Nitroaniline               | 20                      | U |
| 131-11-3 | Dimethylphthalate            | 5                       | U |
| 208-96-8 | Acenaphthylene               | 5                       | U |
| 606-20-2 | 2,6-Dinitrotoluene           | 5                       | U |
| 99-09-2  | 3-Nitroaniline               | 20                      | U |
| 83-32-9  | Acenaphthene                 | 5                       | U |

## LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EDCL4

Lab Name: ENVIROSYSTEMS

Contract: 68-D7-0005

Lab Code: ENVSYS

Case No.: 27876

SAS No.:

SDG No.: EDCJ8

Lab Sample ID: 00030924

Date Received: 03/18/00

Lab File ID: S030924

Date Extracted: 03/22/00

Sample volume: 1000 (ml)

Date Analyzed: 03/28/00

Concentrated Extract Volume: 1000 (ul)

Dilution Factor: 1.0

Injection Volume: 1.0 (ul)

pH: 7.0

| CAS NO.   | COMPOUND                   | CONCENTRATION<br>(ug/L) | Q |
|-----------|----------------------------|-------------------------|---|
| 51-28-5   | 2,4-Dinitrophenol          | 20                      | U |
| 100-02-7  | 4-Nitrophenol              | 20                      | U |
| 132-64-9  | Dibenzofuran               | 5                       | U |
| 121-14-2  | 2,4-Dinitrotoluene         | 5                       | U |
| 84-66-2   | Diethylphthalate           | 5                       | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 5                       | U |
| 86-73-7   | Fluorene                   | 5                       | U |
| 100-01-6  | 4-Nitroaniline             | 20                      | U |
| 534-52-1  | 4,6-Dinitro-2-methylphenol | 20                      | U |
| 86-30-6   | N-Nitrosodiphenylamine (1) | 5                       | U |
| 101-55-3  | 4-Bromophenyl-phenylether  | 5                       | U |
| 118-74-1  | Hexachlorobenzene          | 5                       | U |
| 87-86-5   | Pentachlorophenol          | 20                      | U |
| 85-01-8   | Phenanthrene               | 5                       | U |
| 120-12-7  | Anthracene                 | 5                       | U |
| 84-74-2   | Di-n-Butylphthalate        | 5                       | U |
| 206-44-0  | Fluoranthene               | 5                       | U |
| 129-00-0  | Pyrene                     | 5                       | U |
| 85-68-7   | Butylbenzylphthalate       | 20                      | U |
| 91-94-1   | 3,3'-Dichlorobenzidine     | 5                       | U |
| 56-55-3   | Benzo(a)Anthracene         | 5                       | U |
| 218-01-9  | Chrysene                   | 5                       | U |
| 117-81-7  | bis(2-Ethylhexyl)Phthalate | 5                       | U |
| 117-84-0  | Di-n-octylphthalate        | 5                       | U |
| 205-99-2  | Benzo(b)Fluoranthene       | 5                       | U |
| 207-08-9  | Benzo(k)Fluoranthene       | 5                       | U |
| 50-32-8   | Benzo(a)Pyrene             | 5                       | U |
| 193-39-5  | Indeno(1,2,3-cd)Pyrene     | 5                       | U |
| 53-70-3   | Dibenz(a,h)Anthracene      | 5                       | U |
| 191-24-2  | Benzo(g,h,i)Perylene       | 5                       | U |

(1) - Cannot be separated from Diphenylamine

1 LCF  
 LOW CONC WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO

EDCL4

Lab Name: ENVIROSYSTEMS                      Contract: 68-D7-0005  
 Lab Code: ENVSYS      Case No.: 27876      SAS No.:                      SDG No.: EDCJ8  
 Lab Sample ID: 00030924                      Date Received: 03/18/00  
 Lab File ID: S030924                      Date Extracted: 03/22/00  
 Sample volume: 1000 (ml)                      Date Analyzed: 03/28/00  
 Concentrated Extract Volume: 1000 (ul)                      Dilution Factor: 1.0  
 Injection Volume: 1.0 (ul)                      pH: 7.0

Number TICs found: 0

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC.<br>(ug/L) | Q |
|------------|---------------|----|----------------------|---|
|            |               |    |                      |   |

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION V

ESD Central Regional Laboratory  
Data Tracking Form for Contract Samples

Sample Delivery Group: EDCJ8 CERCLIS No: IND 980 500 292  
Case No: 27876 Site Name/Location: HIMCO DUMP FL (IN)  
Contractor or EPA Lab: ENVSYS Data User: USEPA  
No. of Samples: 20 Date Sampled or Date Received: 4-3-2000

Have Chain-of-Custody records been received? Yes  No   
Have traffic reports or packing lists been received? Yes  No   
If no, are traffic report or packing list numbers written on the Chain-of-Custody Record?  
Yes  No   
If no, which traffic report or packing list numbers are missing?  
\_\_\_\_\_  
\_\_\_\_\_

Are basic data forms in? Yes  No   
No of samples claimed: 20 No. of samples received: 20

Received by: A. C. Harvey / ESAT Date: 4-3-2000

Received by LSSS: A. C. Harvey / ESAT Date: 4-3-2000

Review started: 4/3/00 Reviewer Signature: W. Ann Vignola

Total time spent on review: 12.5 Date review completed: 4/6/00

Copied by: Eva M. Dixon / ESAT Date: 4-13-00

Mailed to user by: Eva M. Dixon / ESAT Date: 4-13-00

**DATA USER:**

Please fill in the blanks below and return this form to:  
Sylvia Griffin, Data Mgmt. Coordinator, Region V, ML-10C

Data received by: \_\_\_\_\_ Date: \_\_\_\_\_

Data review received by: \_\_\_\_\_ Date: \_\_\_\_\_

- |                         |                          |                               |                          |   |
|-------------------------|--------------------------|-------------------------------|--------------------------|---|
| Inorganic Data Complete | <input type="checkbox"/> | Suitable for Intended Purpose | <input type="checkbox"/> | <input checked="" type="checkbox"/> if OK |
| Organic Data Complete   | <input type="checkbox"/> | Suitable for Intended Purpose | <input type="checkbox"/> | <input checked="" type="checkbox"/> if OK |
| Dioxin data Complete    | <input type="checkbox"/> | Suitable for Intended Purpose | <input type="checkbox"/> | <input checked="" type="checkbox"/> if OK |
| SAS Data Complete       | <input type="checkbox"/> | Suitable for Intended Purpose | <input type="checkbox"/> | <input checked="" type="checkbox"/> if OK |

**PROBLEMS:** Please indicate reasons why data are not suitable for your uses.  
\_\_\_\_\_  
\_\_\_\_\_

Received by Data Mgmt. Coordinator for Files. Date: \_\_\_\_\_

Regional Transmittal Form

JUN 07 2000

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION V

DATE:

SUBJECT: Review of Data  
Received for Review on 5-10-00

FROM: Stephen L. Ostrodka, Chief (SMF-4J)  
Superfund Field Services Section

*per Steve Ostrodka  
Richard J. Bygnik  
6/5/00*

TO: Data User: USEPA

We have reviewed the data for the following case:

SITE NAME: HIMCO LANDFILL (IN)

CASE NUMBER: 27986 SDG NUMBER: EDPK9

Number and Type of Samples: 16 (WATER)

Sample Numbers: EDPK9, EDPL0-9, EDPMD-5

Laboratory: PDP Hrs for Review: 10.5

Following are our findings:

*The data are acceptable and usable with the  
qualifications described in the attached narrative.  
Richard J. Bygnik*

CC: Cecilia Moore  
Region 5 TPO  
Mail Code: SM-5J

NARRATIVE

LABORATORY: PDP ANALYTICAL SERV.

Page 2 of 8

SDG: EDPK9

CASE: 27986

SITE: HIMCO LANDFILL

This review covers sixteen (16) low concentration water samples, numbered EDPK9, EDPLO - EDPL9, EDPM0 - EDPM2, EDPM4 and EDPM5, were collected on 04/17 and 18/00. The PDP Analytical Services, of Woodlands, TX received the samples on 04/19/00, in good condition. The samples were analyzed for low concentration VOAs and SVOAs. All samples were analyzed per CLP SOW OLC02.1.

Sample EDPM4 and EDPM5 are Trip Blanks and analyzed for volatiles only.

Laboratory Control Samples (LCS) Identified as VLCS54 and VLCS55 (VOAs) and SLCS60 (SVOA) were analyzed in place of matrix spike/matrix spike duplicate (MS/MSD) samples.

The VOA samples were analyzed within the holding time of fourteen (14) days for preserved water samples and the SVOA samples were extracted within the required holding time of seven days. The analysis of the semivolatile extracts were performed within forty (40) days. Therefore, the results for the VOA and SVOA fractions are acceptable.

The reviewer's narrative and data qualifiers are noted in the following pages.

Reviewed by: W. Ira Wilson\_\_Lockheed-Martin/ESAT

Date: \_\_May 25, 2000

NARRATIVE

LABORATORY: PDP ANALYTICAL SERV.

Page 3 of 8

SDG: EDPK9

CASE: 27986

SITE: HIMCO LANDFILL

Below is a summary of the out-of-control audits and the possible effect on the data for this case.

**1. HOLDING TIME**

This review covers sixteen (16) low concentration water samples, numbered EDPK9, EDPL0 - EDPL9, EDPM0 - EDPM2, EDPM4 and EDPM5 were collected on 04/17 and 18/00. The PDP Analytical Services, of Woodlands, TX received the samples on 04/19/00 in good condition. The samples were analyzed for low concentration VOAs and SVOAs. All samples were analyzed per CLP SOW OLC02.1.

The VOA samples were analyzed within the holding time of fourteen (14) days for preserved water samples; therefore, the results are acceptable.

The SVOA samples were extracted within the holding time of seven (7) days. The extracts were promptly analyzed within the required 40 days criteria. Therefore; the results are acceptable.

**2. GC/MS TUNING AND GC PERFORMANCE**

GC/MS tuning complied with the mass list and ion abundance criteria for BFB and DFTPP.

**3. CALIBRATION**

Initial and continuing calibration standards of VOA and SVOA were evaluated for the Target Compounds List (TCL) and outliers were recorded on the outlier forms included as a part of this narrative.

**4. METHOD BLANK**

Blanks VBLK54 and VBLK55 are the low concentration water Volatile Method Blanks. The Method Blanks were clean, no TCLs or TICs reported. Blank VHBLK01 is identified as a Holding Blank sample which was also clean.

Reviewed by: W. Ira Wilson\_\_Lockheed-Martin/ESAT

Date: \_\_May 25, 2000

NARRATIVE

LABORATORY: PDP ANALYTICAL SERV.

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SDG: EDPK9

CASE: 27986

SITE: HIMCO LANDFILL

Blanks SBLK27 is the low conc. water Semivolatile Method Blank. Blank SBLK27 reported no TCLs and no TICs.

Please refer to Form-IV LCV and Form-IV LCSV for a list of associated samples.

5. SURROGATE RECOVERY AND SYSTEM MONITORING COMPOUNDS

The low concentration recovery of the system monitoring spiking Compound (BFB = Bromofluorobenzene) for the volatile analysis and the surrogate compounds for the semivolatile analysis met the required QC limits for all samples. Therefore, all results are acceptable.

6. MATRIX SPIKE/MSD SAMPLES

A Laboratory Control (LCS) Samples identified as VLCS54 and VLCS55 (for volatiles) and SLCS60 (for semivolatile) were used in place of a matrix spike/matrix spike duplicate sample for the low concentration analysis. All spike recoveries were within the QC limits and the results are acceptable.

7. FIELD BLANK AND FIELD DUPLICATE

Sample EDPM4 and EDPM5 are Trip Blanks and analyzed for volatiles only. The samples reported a detectable amount of Methylene Chloride at 0.5µg/L and 0.9µg/L, respectively, and no TICs.

8. INTERNAL STANDARD

The internal standard retention times and area counts for the low concentration volatile and semivolatile samples were within the required QC limits; therefore, the results are acceptable.

9. COMPOUND IDENTIFICATION

Target compounds and TICs were correctly identified by "best fit"

Reviewed by: W. Ira Wilson\_\_Lockheed-Martin/ESAT

Date: \_\_May 25, 2000

NARRATIVE

LABORATORY: PDP ANALYTICAL SERV.

Page 5 of 8

SDG: EDPK9

CASE: 27986

SITE: HIMCO LANDFILL

library search method.

10. COMPOUND QUANTITATION AND REPORTED DETECTION LIMITS

VOA and SVOA Target Compounds (TCLs) and Tentative Identified Compounds (TICs) were properly quantitated; therefore, the results are acceptable.

11. SYSTEM PERFORMANCE

GC/MS baseline indicated acceptable performance.

12. ADDITIONAL INFORMATION

None

Reviewed by: W. Ira Wilson\_\_Lockheed-Martin/ESAT

Date: \_\_May 25, 2000

# PDP ANALYTICAL SERVICES

1680 Lake Front Circle, Suite B • The Woodlands, TX 77380 • Phone (281)363-2233

|                         |                |               |
|-------------------------|----------------|---------------|
| Contract No. 68-D7-0004 | Case No. 27986 | SDG No. EDPK9 |
|-------------------------|----------------|---------------|

## SDG NARRATIVE

MAY 10 2000

### SAMPLE RECEIPT :

04/19/00 @ 09:02 A.M. - Received two shipments consisting of two coolers: Cooler 1 temperature : 4°C. Cooler 2 temperature : 4°C (COC391562, COC391563, COC391564, COC391565) contained the following:

EDPK9 - 2-1L Amber, 3-40mL Voa Vials.  
EDPL0 - 2-1L Amber, 3-40mL Voa Vials.  
EDPL1 - 2-1L Amber, 3-40mL Voa Vials.  
EDPL2 - 2-1L Amber, 3-40mL Voa Vials.  
EDPL3 - 2-1L Amber, 3-40mL Voa Vials.  
EDPL4 - 2-1L Amber, 3-40mL Voa Vials.  
EDPL5 - 2-1L Amber, 3-40mL Voa Vials.  
EDPL6 - 2-1L Amber, 3-40mL Voa Vials.  
EDPL7 - 2-1L Amber, 3-40mL Voa Vials.  
EDPL8 - 2-1L Amber, 3-40mL Voa Vials.  
EDPL9 - 2-40mL Voa Vials.  
EDPM0 - 2-1L Amber, 3-40mL Voa Vials( 1-40mL Voa received broken).  
EDPM4 - 2-40mL Voa Vials.

04/20/00 @ 09:04 A.M. - Received one shipment consisting of two coolers: Cooler 1 temperature : 4°C. Cooler 2 temperature : 4°C (COC391566) contained the following:

EDPM1 - 2-1L Amber, 3-40mL Voa Vials.  
EDPM2 - 2-1L Amber, 3-40mL Voa Vials.  
EDPM5 - 2-40mL Voa Vials.

No other problems were encountered during sample receipt.

### VOLATILES:

All samples were analyzed on a HP 5973 GC/MS using a 60 meters long DB-624 column having a 0.53mm ID and 3um film thickness. The trap used was a OV-1/Tenax/Silica Gel (Tekmar #6. Cat 14-1755-003) . A 20 mL purge volume was used for all samples, blanks and standards. The concentrations of the standards and spikes were maintained at the levels required by the Statement of Work (SOW).

The following field samples are analyzed for volatiles in this SDG. The pH of the samples is listed against them.

|       |     |       |     |       |     |
|-------|-----|-------|-----|-------|-----|
| EDPK9 | 2.0 | EDPL6 | 2.0 | EDPM1 | 2.0 |
| EDPL0 | 2.0 | EDPL7 | 2.0 | EDPM2 | 2.0 |
| EDPL1 | 2.0 | EDPL8 | 2.0 | EDPM5 | 4.0 |
| EDPL2 | 2.0 | EDPL9 | 2.0 |       |     |

000001

# PDP ANALYTICAL SERVICES

1680 Lake Front Circle, Suite B • The Woodlands, TX 77380 • Phone (281)363-2233

Contract No. 68-D7-0004

Case No. 27986

SDG No. EDPK9

## SDG NARRATIVE

|       |     |       |     |
|-------|-----|-------|-----|
| EDPL3 | 2.0 | EDPM0 | 2.0 |
| EDPL4 | 2.0 | EDPM4 | 2.0 |
| EDPL5 | 2.0 |       |     |

Manual integration's were performed for the following samples for the compounds listed against them.

VSTD00158 – Acetone, 2-Hexanone, 1,2-Dibromo-3-chloropropane, 1,2,4-Trichlorobenzene.

VSTD00258 – 1,2-Dibromo-3-chloropropane, 1,2,4-Trichlorobenzene.

VSTD00563 – Bromomethane, Chloroethane, Acetone, Carbon Tetrachloride, Bromoform, 1,2-Dibromo-chloropropane.

VBLK77 – 1,4-Difluorobenzene.

EDPK9 – Methylene Chloride, cis-1,2-Dichloroethene.

EDPL1 – 1,1-Dichloroethane.

EDPL6 – 1,1-Dichloroethane.

These manual integration's were necessary because the software failed to accurately integrate the entire peak. In all the above instances, the quantitation reports are flagged with "m". A hard copy printout of the manual integration's along with the scan ranges and initials of the operator is included in the data package .

For those target compounds with low signals that required a manual search for the initial calibration, the analysts has performed the same manual search for every sample analysis to ensure that false negative results are not reported. All peaks in the calibration standards, samples and QC samples are checked manually to ensure that the software has correctly identified and integrated the peaks.

No problems were encountered during sample analysis.

### SEMIVOLATILES:

The following samples were extracted using continuous liquid/liquid extraction method on 04/23/00

EDPK9, EDPL0, EDPL1, EDPL2, EDPL3, EDPL4, EDPL5, EDPL6, EDPL7, EDPL8, EDPM0, EDPM1, EDPM2

All samples were analyzed on a HP 5973 GC/MS using a 30 meters long and 0.25mm ID DB-5 column . A 2uL injection was used.

Manual integration's were performed for the following samples for the compounds listed against them.

SSTD00502 – Indeno(1,2,3-cd)pyrene.

SSTD01002 – Indeno(1,2,3-cd)pyrene.

SSTD02002 – Indeno(1,2,3-cd)pyrene

SSTD05002 – Indeno(1,2,3-cd)pyrene.

# PDP ANALYTICAL SERVICES

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|                         |                |               |
|-------------------------|----------------|---------------|
| Contract No. 68-D7-0004 | Case No. 27986 | SDG No. EDPK9 |
|-------------------------|----------------|---------------|

## SDG NARRATIVE

SSTD08002 – Benzo(b)fluoranthene, Benzo(k)fluoranthene, Indeno(1,2,3-cd)pyrene.

SSTD02005 – 2,2'-oxybis(1-Chloropropane), Indeno(1,2,3-cd)pyrene.

SSTD02006 – 2,2'-oxybis(1-Chloropropane), Indeno(1,2,3-cd)pyrene.

These manual integration's were necessary because the software failed to accurately integrate the entire peak. In all the above instances, the quantitation reports are flagged with "m". A hard copy printout of the manual integration's along with the scan ranges and initials of the operator is included in the data package . For those target compounds with low signals that required a manual search for the initial calibration, the analysts has performed the same manual search for every sample analysis to ensure that false negative results are not reported. All peaks in the calibration standards, samples and QC samples are checked manually to ensure that the software has correctly identified and integrated the peaks.

No problems were encountered during sample extraction and sample analysis.

*I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature:*

Elizabeth A. Panico / QC Coordinator

Signature and Title

5/18/00

Date of Signature

**Sample Delivery Group (SDG)  
Traffic Report (TR) Cover Sheet**

Lab Name: PDP Analytical Services Contract No.: 68-D7-0004

Lab Code: PDP Case No. 27986

Full Sample Analysis Price in Contract: \$ 525.00

SDG No./First Sample in SDG: EDPK9 Sample Receipt Date: 04/19/00  
(Lowest EPA Sample Number in first shipment of samples received under SDG.)

Last Sample in SDG: EDPM5 Sample Receipt Date: 04/20/00  
(Highest EPA Sample Number in last shipment of samples received under SDG.)

EPA Sample Numbers in the SDG (listed in alphanumeric order)

- |                  |                  |
|------------------|------------------|
| 1. <u>EDPK9</u>  | 11. <u>EDPL9</u> |
| 2. <u>EDPL0</u>  | 12. <u>EDPM0</u> |
| 3. <u>EDPL1</u>  | 13. <u>EDPM1</u> |
| 4. <u>EDPL2</u>  | 14. <u>EDPM2</u> |
| 5. <u>EDPL3</u>  | 15. <u>EDPM4</u> |
| 6. <u>EDPL4</u>  | 16. <u>EDPM5</u> |
| 7. <u>EDPL5</u>  |                  |
| 8. <u>EDPL6</u>  |                  |
| 9. <u>EDPL7</u>  |                  |
| 10. <u>EDPL8</u> |                  |

Note: There are a maximum of 20 field samples in an SDG.

Attach Traffic Reports to this form in alphanumeric order (i.e., the order listed on this form).

S. S. S. S.  
Signature

4/26/00  
Date

LOW CONCENTRATION WATER VOLATILE TCL COMPOUNDS  
(page 1 of 1)

CASE/SAS# 27986  
COLUMN: DB 624  
HEATED PURGE(Y/N):

LABORATORY PDP Analytical Service  
SITENAME HIMCO WAREHOUSE

| Instruments                 | #    | Initial Cal.          |      | Contin. Cal.        |             | Contin. Cal.         |              | Contin. Cal. |    | Contin. Cal. |    |
|-----------------------------|------|-----------------------|------|---------------------|-------------|----------------------|--------------|--------------|----|--------------|----|
|                             |      | rt                    | %rsd | rt                  | %d          | rt                   | %d           | rt           | %d | rt           | %d |
| Sample ID: <u>FH05973</u>   |      |                       |      |                     |             |                      |              |              |    |              |    |
| Date/Time:                  |      | <u>4/14/00 - 1007</u> |      | <u>4/24/00 2215</u> |             | <u>4/24/00 - 949</u> |              |              |    |              |    |
| Chloromethane               | 0.01 | <u>0.578</u>          |      | <u>0.747</u>        | <u>28.4</u> | <u>J</u>             | <u>0.664</u> |              |    |              |    |
| Bromomethane                | 0.10 |                       |      |                     |             |                      |              |              |    |              |    |
| Vinyl chloride              | 0.10 |                       |      |                     |             |                      |              |              |    |              |    |
| Chloroethane                | 0.01 |                       |      |                     |             |                      |              |              |    |              |    |
| Methylene chloride          | 0.01 |                       |      |                     |             |                      |              |              |    |              |    |
| Acetone                     | 0.01 |                       |      |                     |             |                      |              |              |    |              |    |
| Carbon disulfide            | 0.01 |                       |      |                     |             |                      |              |              |    |              |    |
| 1,1-Dichloroethene          | 0.10 |                       |      |                     |             |                      |              |              |    |              |    |
| 1,1-Dichloroethane          | 0.20 |                       |      |                     |             |                      |              |              |    |              |    |
| cis-1,2-Dichloroethene      | 0.10 |                       |      |                     |             |                      |              |              |    |              |    |
| trans-1,2-Dichloroethene    | 0.10 |                       |      |                     |             |                      |              |              |    |              |    |
| Chloroform                  | 0.20 |                       |      |                     |             |                      |              |              |    |              |    |
| 1,2-Dichloroethane          | 0.10 |                       |      |                     |             |                      |              |              |    |              |    |
| 2-Butanone                  | 0.01 |                       |      |                     |             |                      |              |              |    |              |    |
| Bromochloromethane          | 0.05 |                       |      |                     |             |                      |              |              |    |              |    |
| 1,1,1-Trichloroethane       | 0.10 |                       |      |                     |             |                      |              |              |    |              |    |
| Carbon tetrachloride        | 0.10 |                       |      |                     |             |                      |              |              |    |              |    |
| Bromodichloromethane        | 0.20 |                       |      |                     |             |                      |              |              |    |              |    |
| 1,2-Dichloropropane         | 0.01 |                       |      |                     |             |                      |              |              |    |              |    |
| cis-1,3-Dichloropropene     | 0.20 |                       |      |                     |             |                      |              |              |    |              |    |
| Trichloroethene             | 0.30 |                       |      |                     |             |                      |              |              |    |              |    |
| Dibromochloromethane        | 0.10 |                       |      |                     |             |                      |              |              |    |              |    |
| 1,1,2-Trichloroethane       | 0.10 |                       |      |                     |             |                      |              |              |    |              |    |
| Benzene                     | 0.40 |                       |      |                     |             |                      |              |              |    |              |    |
| trans-1,3-Dichloropropene   | 0.10 |                       |      |                     |             |                      |              |              |    |              |    |
| Bromotorm                   | 0.05 | <u>0.224</u>          |      | <u>0.284</u>        | <u>26.8</u> | <u>J</u>             | <u>0.284</u> |              |    |              |    |
| 4-Methyl-2-Pentanone        | 0.01 |                       |      |                     |             |                      |              |              |    |              |    |
| 2-Hexanone                  | 0.01 |                       |      |                     |             |                      |              |              |    |              |    |
| Tetrachloroethene           | 0.10 |                       |      |                     |             |                      |              |              |    |              |    |
| 1,1,2,2-Tetrachloroethane   | 0.10 |                       |      |                     |             |                      |              |              |    |              |    |
| 1,2-Dibromoethane           | 0.10 |                       |      |                     |             |                      |              |              |    |              |    |
| Toluene                     | 0.40 |                       |      |                     |             |                      |              |              |    |              |    |
| Chlorobenzene               | 0.50 |                       |      |                     |             |                      |              |              |    |              |    |
| Ethylbenzene                | 0.10 |                       |      |                     |             |                      |              |              |    |              |    |
| Styrene                     | 0.30 |                       |      |                     |             |                      |              |              |    |              |    |
| Xylene (total)              | 0.30 |                       |      |                     |             |                      |              |              |    |              |    |
| 1,2-Dibromo-3-chloropropane | 0.10 | <u>0.055</u>          |      | <u>0.071</u>        | <u>29.1</u> | <u>J</u>             | <u>0.064</u> |              |    |              |    |
| 1,3-Dichlorobenzene         | 0.40 |                       |      |                     |             |                      |              |              |    |              |    |
| 1,4-Dichlorobenzene         | 0.40 |                       |      |                     |             |                      |              |              |    |              |    |
| 1,2-Dichlorobenzene         | 0.40 |                       |      |                     |             |                      |              |              |    |              |    |
| 1,2,4-Trichlorobenzene      | 0.40 |                       |      |                     |             |                      |              |              |    |              |    |
| 4-Bromofluorobenzene        | 0.20 |                       |      |                     |             |                      |              |              |    |              |    |

|                   |  |                 |                 |  |  |
|-------------------|--|-----------------|-----------------|--|--|
| Samples affected: |  | <u>VBK 54</u>   | <u>VBK 55</u>   |  |  |
|                   |  | <u>VLCS 54</u>  | <u>VLCS 55</u>  |  |  |
|                   |  | <u>EDPL7-L9</u> | <u>EDPK9</u>    |  |  |
|                   |  | <u>EDPM0-M2</u> | <u>EDPL0-L6</u> |  |  |
|                   |  | <u>EDPM4</u>    | <u>VHBLK 01</u> |  |  |
|                   |  | <u>EDPM5</u>    |                 |  |  |
|                   |  |                 |                 |  |  |
|                   |  |                 |                 |  |  |
|                   |  |                 |                 |  |  |
|                   |  |                 |                 |  |  |

Reviewer's Init./Date: WAK  
5/25/00

J/R = All positive results are estimated "J" and non-detected results are unusable "B"  
\* = These flags should be applied to the analytes on the sample data sheets  
# = Minimum Relative Response Factor  
ESAT-5-021.5 10/99

CALIBRATION OUTLIER  
LOW CONCENTRATION WATER SEMIVOLATILE TCL COMPOUNDS

(Page 1 of 2)

CASE/SAS#: 257986  
COLUMN: \_\_\_\_\_

LABORATORY: PDP Analytical  
SITE NAME: HINCO Landfill

| Instrument#                  | #        | Initial Cal.  |     |   | Contin. Cal.  |    |   | Contin. Cal. |    |   | Contin. Cal. |    |   | Contin. Cal. |    |   |
|------------------------------|----------|---------------|-----|---|---------------|----|---|--------------|----|---|--------------|----|---|--------------|----|---|
|                              |          | ri            | %rd | * | ri            | %d | * | ri           | %d | * | ri           | %d | * | ri           | %d | * |
| Date/Time:                   |          | 5/4/00 - 1033 |     |   | 5/4/00 - 1926 |    |   | 5/5/00 - 727 |    |   |              |    |   |              |    |   |
| Instrument#                  | H-HP5973 |               |     |   |               |    |   |              |    |   |              |    |   |              |    |   |
| Phenol                       | 0.80     |               |     |   |               |    |   |              |    |   |              |    |   |              |    |   |
| bis(2-chloroethyl) Ether     | 0.70     |               |     |   |               |    |   |              |    |   |              |    |   |              |    |   |
| 2-Chlorophenol               | 0.70     |               |     |   |               |    |   |              |    |   |              |    |   |              |    |   |
| 2-Methylphenol               | 0.70     |               |     |   |               |    |   |              |    |   |              |    |   |              |    |   |
| 2,2'-Oxybis(1-chloropropane) | 0.01     |               |     |   |               |    |   |              |    |   |              |    |   |              |    |   |
| 4-Methylphenol               | 0.60     |               |     |   |               |    |   |              |    |   |              |    |   |              |    |   |
| N-nitroso-di-n-propylamine   | 0.50     |               |     |   |               |    |   |              |    |   |              |    |   |              |    |   |
| Hexachloroethane             | 0.30     |               |     |   |               |    |   |              |    |   |              |    |   |              |    |   |
| Nitrobenzene                 | 0.20     |               |     |   |               |    |   |              |    |   |              |    |   |              |    |   |
| Isophorone                   | 0.40     |               |     |   |               |    |   |              |    |   |              |    |   |              |    |   |
| 2-Nitrophenol                | 0.10     |               |     |   |               |    |   |              |    |   |              |    |   |              |    |   |
| 2,4-Dimethylphenol           | 0.20     |               |     |   |               |    |   |              |    |   |              |    |   |              |    |   |
| bis(2-chloroethoxy)methane   | 0.30     |               |     |   |               |    |   |              |    |   |              |    |   |              |    |   |
| 2,4-Dichlorophenol           | 0.20     |               |     |   |               |    |   |              |    |   |              |    |   |              |    |   |
| 1,2,4-Trichlorobenzene       | 0.20     |               |     |   |               |    |   |              |    |   |              |    |   |              |    |   |
| Naphthalene                  | 0.70     |               |     |   |               |    |   |              |    |   |              |    |   |              |    |   |
| 4-Chloroaniline              | 0.01     |               |     |   |               |    |   |              |    |   |              |    |   |              |    |   |
| Hexachlorobutadiene          | 0.01     |               |     |   |               |    |   |              |    |   |              |    |   |              |    |   |
| 4-Chloro-3-methylphenol      | 0.20     |               |     |   |               |    |   |              |    |   |              |    |   |              |    |   |
| 2-Methylnaphthalene          | 0.40     |               |     |   |               |    |   |              |    |   |              |    |   |              |    |   |
| Hexachlorocyclopentadiene    | 0.01     |               |     |   |               |    |   |              |    |   |              |    |   |              |    |   |
| 2,4,6-Trichlorophenol        | 0.20     |               |     |   |               |    |   |              |    |   |              |    |   |              |    |   |
| 2,4,5-Trichlorophenol        | 0.20     |               |     |   |               |    |   |              |    |   |              |    |   |              |    |   |
| 2-Chloronaphthalene          | 0.80     |               |     |   |               |    |   |              |    |   |              |    |   |              |    |   |
| 3-Nitroaniline               | 0.01     |               |     |   |               |    |   |              |    |   |              |    |   |              |    |   |
| Dimethyl phthalate           | 0.01     |               |     |   |               |    |   |              |    |   |              |    |   |              |    |   |
| Acenaphthylene               | 0.30     |               |     |   |               |    |   |              |    |   |              |    |   |              |    |   |
| 2,6-Dinitrotoluene           | 0.20     |               |     |   |               |    |   |              |    |   |              |    |   |              |    |   |
| 3-Nitroaniline               | 0.01     |               |     |   |               |    |   |              |    |   |              |    |   |              |    |   |
| Acenaphthene                 | 0.30     |               |     |   |               |    |   |              |    |   |              |    |   |              |    |   |
| 2,4-Dinitrophenol            | 0.01     |               |     |   |               |    |   |              |    |   |              |    |   |              |    |   |
| 4-Nitrophenol                | 0.01     |               |     |   |               |    |   |              |    |   |              |    |   |              |    |   |
| Dibenzofuran                 | 0.80     |               |     |   |               |    |   |              |    |   |              |    |   |              |    |   |
| 2,4-Dinitrotoluene           | 0.20     |               |     |   |               |    |   |              |    |   |              |    |   |              |    |   |
| Affected samples:            |          |               |     |   |               |    |   |              |    |   |              |    |   |              |    |   |
|                              |          |               |     |   |               |    |   |              |    |   |              |    |   |              |    |   |
|                              |          |               |     |   |               |    |   |              |    |   |              |    |   |              |    |   |
|                              |          |               |     |   |               |    |   |              |    |   |              |    |   |              |    |   |
|                              |          |               |     |   |               |    |   |              |    |   |              |    |   |              |    |   |
|                              |          |               |     |   |               |    |   |              |    |   |              |    |   |              |    |   |
|                              |          |               |     |   |               |    |   |              |    |   |              |    |   |              |    |   |
|                              |          |               |     |   |               |    |   |              |    |   |              |    |   |              |    |   |
|                              |          |               |     |   |               |    |   |              |    |   |              |    |   |              |    |   |
|                              |          |               |     |   |               |    |   |              |    |   |              |    |   |              |    |   |
|                              |          |               |     |   |               |    |   |              |    |   |              |    |   |              |    |   |
|                              |          |               |     |   |               |    |   |              |    |   |              |    |   |              |    |   |
|                              |          |               |     |   |               |    |   |              |    |   |              |    |   |              |    |   |
|                              |          |               |     |   |               |    |   |              |    |   |              |    |   |              |    |   |
|                              |          |               |     |   |               |    |   |              |    |   |              |    |   |              |    |   |
|                              |          |               |     |   |               |    |   |              |    |   |              |    |   |              |    |   |
|                              |          |               |     |   |               |    |   |              |    |   |              |    |   |              |    |   |
|                              |          |               |     |   |               |    |   |              |    |   |              |    |   |              |    |   |

SBLK27 EDPLS-68  
 SLC560 EDPMO-M2  
 EDPK9  
 EDPLD-64

Reviewer's Init/Date: WJH  
5/25/00

J/R = All positive results are estimated "J" and non-detected results are unusable "R"  
 \* = These flags should be applied to the analytes on the sample data sheets.  
 # = Minimum Relative Response Factor

Pg 8

CALIBRATION OUTLIER  
LOW CONCENTRATION WATER SEMIVOLATILE TCL COMPOUNDS  
(Page 2 of 2)

CASE/SAS#: 27986  
COLUMN: \_\_\_\_\_

LABORATORY: PDP Analytical  
SITE NAME: #1M CO Landfill

| Instrument#                | #    | Initial Cal. |     |   | Contin. Cal. |    |   | Contin. Cal. |    |   | Contin. Cal. |    |   | Contin. Cal. |    |   |  |
|----------------------------|------|--------------|-----|---|--------------|----|---|--------------|----|---|--------------|----|---|--------------|----|---|--|
|                            |      | rf           | %rd | * | rf           | %d | * |  |
| # - HP5973                 |      |              |     |   |              |    |   |              |    |   |              |    |   |              |    |   |  |
| Date/Time:                 |      | 5/2/00-1033  |     |   | 5/4/00-7926  |    |   | 5/5/00-727   |    |   |              |    |   |              |    |   |  |
| Dichvlphthalate            | 0.01 |              |     |   |              |    |   |              |    |   |              |    |   |              |    |   |  |
| 4-Chlorophenyl-phenylether | 0.40 |              |     |   |              |    |   |              |    |   |              |    |   |              |    |   |  |
| Fluorene                   | 0.90 |              |     |   |              |    |   |              |    |   |              |    |   |              |    |   |  |
| 4-Nitroaniline             | 0.01 |              |     |   |              |    |   |              |    |   |              |    |   |              |    |   |  |
| 4,6-Dinitro-2-methylphenol | 0.01 |              |     |   |              |    |   |              |    |   |              |    |   |              |    |   |  |
| N-nitrosodiphenylamine     | 0.01 |              |     |   |              |    |   |              |    |   |              |    |   |              |    |   |  |
| 4-Bromophenyl-phenylether  | 0.10 |              |     |   |              |    |   |              |    |   |              |    |   |              |    |   |  |
| Hexachlorobenzene          | 0.10 |              |     |   |              |    |   |              |    |   |              |    |   |              |    |   |  |
| Pentachlorophenol          | 0.05 |              |     |   |              |    |   |              |    |   |              |    |   |              |    |   |  |
| Phenanthrene               | 0.70 |              |     |   |              |    |   |              |    |   |              |    |   |              |    |   |  |
| Anthracene                 | 0.70 |              |     |   |              |    |   |              |    |   |              |    |   |              |    |   |  |
| Di-n-butylphthalate        | 0.01 |              |     |   |              |    |   |              |    |   |              |    |   |              |    |   |  |
| Fluoranthene               | 0.60 |              |     |   |              |    |   |              |    |   |              |    |   |              |    |   |  |
| Pyrene                     | 0.60 |              |     |   |              |    |   |              |    |   |              |    |   |              |    |   |  |
| Butylbenzylphthalate       | 0.01 |              |     |   |              |    |   |              |    |   |              |    |   |              |    |   |  |
| 3,3'-Dichlorobenzidine     | 0.01 |              |     |   |              |    |   |              |    |   |              |    |   |              |    |   |  |
| Benzo(a)anthracene         | 0.80 |              |     |   |              |    |   |              |    |   |              |    |   |              |    |   |  |
| Chrysene                   | 0.70 |              |     |   |              |    |   |              |    |   |              |    |   |              |    |   |  |
| bis(2-Ethylhexyl)phthalate | 0.01 |              |     |   |              |    |   |              |    |   |              |    |   |              |    |   |  |
| Di-n-octyl phthalate       | 0.01 |              |     |   |              |    |   |              |    |   |              |    |   |              |    |   |  |
| Benzo(b)fluoranthene       | 0.70 |              |     |   |              |    |   |              |    |   |              |    |   |              |    |   |  |
| Benzo(k)fluoranthene       | 0.70 |              |     |   |              |    |   |              |    |   |              |    |   |              |    |   |  |
| Benzo(a)pyrene             | 0.70 |              |     |   |              |    |   |              |    |   |              |    |   |              |    |   |  |
| Indeno(1,2,3-cd)pyrene     | 0.50 |              |     |   |              |    |   |              |    |   |              |    |   |              |    |   |  |
| Dibenz(a,h)anthracene      | 0.40 |              |     |   |              |    |   |              |    |   |              |    |   |              |    |   |  |
| Benzo(g,h,i)perylene       | 0.50 |              |     |   |              |    |   |              |    |   |              |    |   |              |    |   |  |
| Nitrobenzene-d5            | 0.01 |              |     |   |              |    |   |              |    |   |              |    |   |              |    |   |  |
| 2-Fluorobiphenyl           | 0.70 |              |     |   |              |    |   |              |    |   |              |    |   |              |    |   |  |
| Terphenyl-d14              | 0.50 |              |     |   |              |    |   |              |    |   |              |    |   |              |    |   |  |
| Phenol-d5                  | 0.80 |              |     |   |              |    |   |              |    |   |              |    |   |              |    |   |  |
| 2-Fluorophenol             | 0.60 |              |     |   |              |    |   |              |    |   |              |    |   |              |    |   |  |
| 2,4,6-Tribromophenol       | 0.01 |              |     |   |              |    |   |              |    |   |              |    |   |              |    |   |  |

Reviewer's Init/Date: WAW  
5/25/00

J/R = All positive results are estimated "J" and non-detected results are unusable "R"  
\* = These flags should be applied to the analytes on the sample data sheets.  
# = Minimum Relative Response Factor

REGION V

ESD Central Regional Laboratory  
Data Tracking Form for Contract Samples

Sample Delivery Group: EDPK9 CERCLIS No: \_\_\_\_\_

Case No: 27986 Site Name/Location: HIMCO LANDFILL

Contractor or EPA Lab: PDP Data User: USEPA

No. of Samples: 16 Date Sampled or Date Received: 5-10-00

Have Chain-of-Custody records been received? Yes  No

Have traffic reports or packing lists been received? Yes  No

If no, are traffic report or packing list numbers written on the Chain-of-Custody Record?

Yes  No

If no, which traffic report or packing list numbers are missing?

\_\_\_\_\_

Are basic data forms in? Yes  No

No of samples claimed: 16 No. of samples received: 16

Received by: EVA M. Dixon / ESAT Date: 5-10-00

Received by LSSS: EVA M. Dixon / ESAT Date: 5-10-00

Review started: MAY 24-00 Reviewer Signature: W. Lee Wilson

Total time spent on review: 10.5 Date review completed: MAY 25-00

Copied by: EVA M. Dixon / ESAT Date: 6-7-00

Mailed to user by: EVA M. Dixon / ESAT Date: 6-7-00

**DATA USER:**

Please fill in the blanks below and return this form to:

Sylvia Griffin, Data Mgmt. Coordinator, Region V, ML-10C

Data received by: \_\_\_\_\_ Date: \_\_\_\_\_

Data review received by: \_\_\_\_\_ Date: \_\_\_\_\_

- Inorganic Data Complete  Suitable for Intended Purpose   if OK
- Organic Data Complete  Suitable for Intended Purpose   if OK
- Dioxin data Complete  Suitable for Intended Purpose   if OK
- SAS Data Complete  Suitable for Intended Purpose   if OK

**PROBLEMS:** Please indicate reasons why data are not suitable for your uses.

\_\_\_\_\_  
\_\_\_\_\_

Received by Data Mgmt. Coordinator for Files. Date: \_\_\_\_\_



27986

|                 |                   |   |              |       |   |         |         |        |                                |   |            |                 |               |
|-----------------|-------------------|---|--------------|-------|---|---------|---------|--------|--------------------------------|---|------------|-----------------|---------------|
|                 | 3. Region No.     | 5 | Sampling Co. | USACE | 5. Date Shipped   | 4/18/00 | Carrier | FED EX | 7. Date Received--Received by: | 4-19-00 Carlos Ruiz   |            |                 |               |
|                 | Sampler (Name)    |   |              |       | Janie E. Carrig   |         |         |        | Laboratory Contract No.        | 68-07-0004  | Unit Price | 525.00          |               |
|                 | Sampler Signature |   |              |       | Janie Carrig  |         |         |        | Airbill Number                 | 820134806597  |            |                 |               |
|                 | 4. Purpose**      |   |              |       | <input checked="" type="checkbox"/> SF<br><input type="checkbox"/> PRP<br><input type="checkbox"/> ST<br><input type="checkbox"/> FED<br><input type="checkbox"/> BZ<br><input type="checkbox"/> Lead<br><input type="checkbox"/> Early Action<br><input type="checkbox"/> IA<br><input type="checkbox"/> PA<br><input type="checkbox"/> REM<br><input type="checkbox"/> RI<br><input type="checkbox"/> SI<br><input type="checkbox"/> ESI<br><input checked="" type="checkbox"/> Long Term Action<br><input type="checkbox"/> RIFS<br><input type="checkbox"/> RD<br><input type="checkbox"/> RA<br><input type="checkbox"/> O&M |         |         |        | 6. Ship To:                    | PDP Analytical Service<br>1680 Lakefront Circle<br>Suite B<br>The Woodlands, TX<br>ATTN: Sean Sundquist 77380 |            | 8. Transfer to: | Date Received |
| Contract Number |                   |   |              |       |   |         |         | Price  |                                |   |            |                 |               |

| CLP Sample Numbers (from labels) | A Matrix (from Box 1)<br>Other: RES, WELL | B Conc.:<br>Low Med | C Sample Type:<br>Comp/Grab | D Preservative (from Box 2)<br>Other: | E RAS Analysis                   |                                  |  | F Regional Specific Tracking Number or Tag Numbers | G Station Location Identifier | H Mo/Day/Year/Time Sample Collection | I Corresponding CLP Inorganic Sample No. | J Sampler Initials | K Sample Condition |
|----------------------------------|---|---------------------|-----------------------------|---------------------------------------|----------------------------------|----------------------------------|--|--|-------------------------------|--------------------------------------|--|--------------------|--------------------|
|                                  |   |                     |                             |                                       | TA (circle one)<br>PR* 7 (14) 21 | TA (circle one)<br>PR* 7 (14) 21 | TA (circle one)<br>PR* 7 14 21<br>Pest/PCB |  |                               |                                      |  |                    |                    |
| EDPK9                            | 8   | LL                  | Grab                        | 1                                     | X                                | -                                | -  | 5-068913, 5-068914                                 | 54287 Westwood                | 04/17/00 1550                        | NA                                       | J                  |                    |
| EDPK9                            | 8   | LL                  | Grab                        | 5                                     | -                                | X                                | -  | 5-068911, 5-068912                                 | 54287 Westwood                | 04/17/00 1550                        | NA                                       | J                  |                    |
| EDPL0                            | 8   | LL                  | Grab                        | 1                                     | X                                | -                                | -  | 5-068928, 5-068929                                 | 54280 Westwood                | 04/17/00 1559                        | NA                                       | J                  |                    |
| EDPL0                            | 8   | LL                  | Grab                        | 5                                     | -                                | X                                | -  | 5-068926, 5-068927                                 | 54280 Westwood                | 04/17/00 1559                        | NA                                       | J                  |                    |
| EDPL1                            | 8   | LL                  | Grab                        | 1                                     | X                                | -                                | -  | 5-068917, 5-068918                                 | 54271 Westwood                | 04/17/00 1626                        | NA                                       | J                  |                    |
| EDPL1                            | 8   | LL                  | Grab                        | 5                                     | -                                | X                                | -  | 5-068915, 5-068916                                 | 511271 Westwood               | 04/17/00 1626                        | NA                                       | J                  |                    |
| EDPL4                            | 8   | LL                  | Grab                        | 1                                     | X                                | -                                | -  | 5-068939, 5-068935                                 | 54215 Westwood                | 04/17/00 1714                        | NA                                       | J                  |                    |
| EDPL4                            | 8   | LL                  | Grab                        | 5                                     | -                                | X                                | -  | 5-068941, 5-068937                                 | 54215 Westwood                | 04/17/00 1714                        | NA                                       | J                  |                    |
| EDPL9                            | 8   | LL                  | Grab                        | 1                                     | X                                | -                                | -  | 5-068854, 5-068990                                 | Trip Blank                    | 04/17/00 1559                        | NA                                       | J                  |                    |

|                                   |             |                                 |      |           |                               |                                 |
|-----------------------------------|-------------|---------------------------------|------|-----------|-------------------------------|---------------------------------|
| Shipment for Case Complete? (Y/N) | Page 1 of 2 | VOA MS/MSD Required? (Y/N)      | Y(N) | Sample #: | Additional Sampler Signatures | Chain of Custody Seal Number(s) |
|                                   |             | BNA MS/MSD Required? (Y/N)      | Y(N) | Sample #: | L. M. Hansen                  | 22817, 22816                    |
|                                   |             | Pest/PCB MS/MSD Required? (Y/N) | Y(N) | Sample #: |                               |                                 |

\*PR provides 7-day data turnaround in addition to preliminary results. Requests for preliminary results will increase analytical costs.

Chain of Custody Record

|  |                             |  |                              |   |                           |
|--|-----------------------------|--|------------------------------|---|---------------------------|
| Relinquished by: (Signature)<br>Janie Carrig | Date / Time<br>4/18/00 1000 | Received by: (Signature)                               | Relinquished by: (Signature) | Date / Time                                 | Received by: (Signature)  |
| Relinquished by: (Signature)                 | Date / Time                 | Received by: (Signature)                               | Relinquished by: (Signature) | Date / Time                                 | Received by: (Signature)  |
| Relinquished by: (Signature)                 | Date / Time                 | Received for Laboratory by: (Signature)<br>Carlos Ruiz | Date / Time<br>4-19-00 9:02  | Remarks: Is custody seal intact? (Y/N) none | Case: 27986<br>SDG: EDPK9 |



**Organic Traffic Report  
& Chain of Custody Record**  
(For Organic CLP Analysis)

SDG No.

Case No.

27986

|   |   |   |  |  |                                    |                               |
|---|---|---|--|--|------------------------------------|-------------------------------|
| <p>1. Matrix<br/>1. Surface Water<br/>2. Ground Water<br/>3. Leachate<br/>4. Field OC<br/>5. Soil/Sediment<br/>6. PE<br/>7. PE<br/>8. Other (Specify in Column A)</p> | <p>2. Preservation<br/>1. HCl<br/>2. HNO<sub>3</sub><br/>3. NaHSO<sub>4</sub><br/>4. H<sub>2</sub>SO<sub>4</sub><br/>5. Icat only<br/>6. CH<sub>3</sub>OH<br/>7. Other (Specify in Column D)<br/>N: Not Preserved</p> | 3. Region No. Sampling Co.<br>5 USACE   | 5. Date Shipped Carrier<br>4/18/00 FedEx | 7. Date Received--Received by:   |                                    |                               |
|   |   | Sampler (Name)<br>Janie E. Carrig   |  | Airbill Number<br>820134806597   | Laboratory Contract No. Unit Price |                               |
|   |   | Sampler Signature<br>Janie E Carrig   |  | 6. Ship To: PDP Analytical Services<br>1680 Lakefront Circle<br>Suite B<br>The Woodlands, TX<br>ATTN: Sean Sundquist 77380 |                                    | 8. Transfer to: Date Received |
|   |   | 4. Purpose**<br>Lead <input type="checkbox"/> SF <input type="checkbox"/> IA <input type="checkbox"/> Long-Term Action<br><input type="checkbox"/> PRP <input type="checkbox"/> PA <input type="checkbox"/><br><input type="checkbox"/> ST <input type="checkbox"/> REM <input type="checkbox"/> RIFS <input type="checkbox"/><br><input type="checkbox"/> FED <input type="checkbox"/> RI <input type="checkbox"/> RD <input type="checkbox"/><br><input type="checkbox"/> BZ <input type="checkbox"/> SI <input type="checkbox"/> RA <input type="checkbox"/><br><input type="checkbox"/> ESI <input type="checkbox"/> O&M <input type="checkbox"/> |  | Received by:<br>Contract Number Price  |                                    |                               |

| CLP Sample Numbers (from labels) | A Matrix (from Box 1)<br>Other: RES WELL | B Conc.:<br>Low Med | C Sample Type:<br>Comp./Grab | D Preservative (from Box 2)<br>Other: | E RAS Analysis                 |                                |                                | F Regional Specific Tracking Number or Tag Numbers | G Station Location Identifier | H Mo/Day/Year/Time Sample Collection | I Corresponding CLP Inorganic Sample No. | J Sampler Initials | K Sample Condition |
|----------------------------------|--|---------------------|------------------------------|---------------------------------------|--------------------------------|--------------------------------|--------------------------------|--|-------------------------------|--------------------------------------|--|--------------------|--------------------|
|                                  |  |                     |                              |                                       | TA (circle one)<br>PR* 7 14 21 | TA (circle one)<br>PR* 7 14 21 | TA (circle one)<br>PR* 7 14 21 |  |                               |                                      |  |                    |                    |
| EDPL2                            | 8  | LL                  | Grab                         | 1                                     | X                              | -                              | -                              | 5-068849, 5-068848<br>5-068848                     | 54253 Westwood                | 04/17/00 1639                        | NA                                       | J                  |                    |
| EDPL2                            | 8  | LL                  | Grab                         | 5                                     | -                              | X                              | -                              | 5-068851, 5-068848<br>5-068848                     | 54253 Westwood                | 04/17/00 1639                        | NA                                       | J                  |                    |
| EDPL3                            | 8  | LL                  | Grab                         | 1                                     | X                              | -                              | -                              | 5-068847, 068848<br>5-068848                       | 54231 Westwood                | 04/17/00 1700                        | NA                                       | J                  |                    |
| EDPL3                            | 8  | LL                  | Grab                         | 5                                     | X                              | X                              | -                              | 5-068849, 5-068850                                 | 54231 Westwood                | 04/17/00 1700                        | NA                                       | J                  |                    |
| E                                |  |                     |                              |                                       |                                |                                |                                |  |                               |                                      |  |                    |                    |

|   |             |   |   |   |
|---|-------------|---|---|---|
| Shipment for Case Complete? (Y/N) <input checked="" type="checkbox"/> | Page 2 of 2 | VOA MS/MSD Required? <input checked="" type="checkbox"/> Sample #:      | Additional Sampler Signatures<br>A. Ruffel Jensen | Chain of Custody Seal Number(s)<br>22817, 22816 |
|   |             | BNA MS/MSD Required? <input checked="" type="checkbox"/> Sample #:      |   |   |
|   |             | Pest/PCB MS/MSD Required? <input checked="" type="checkbox"/> Sample #: |   |   |

\*PR provides 7-day data turnaround in addition to preliminary results. Requests for preliminary results will increase analytical costs.

**Chain of Custody Record**

|  |                             |   |                              |   |                          |
|--|-----------------------------|---|------------------------------|---|--------------------------|
| Relinquished by: (Signature)<br>Janie E Carrig | Date / Time<br>4/18/00 1000 | Received by: (Signature)                | Relinquished by: (Signature) | Date / Time   | Received by: (Signature) |
| Relinquished by: (Signature)                   | Date / Time                 | Received by: (Signature)                | Relinquished by: (Signature) | Date / Time   | Received by: (Signature) |
| Relinquished by: (Signature)                   | Date / Time                 | Received for Laboratory by: (Signature) | Date / Time<br>4-19-00 9:02  | Remarks: Is custody seal intact? <input checked="" type="checkbox"/> none Case: 27986<br>SDG: EDPK9 |                          |

Distribution: Blue - Region Copy  
White - Lab Copy for Return to SMO  
Pink - SMO Copy  
Yellow - Lab Copy for Return to Region

See Reverse for Additional Standard Instruction  
\*\*See Reverse for Purpose Code Definitions



Organic Analyte Report  
& Chain of Custody Record  
(For Organic CLP Analysis)

27986

|  |                   |   |  |       |  |           |   |        |                                |            |                 |        |       |
|--|-------------------|---|--|-------|--|-----------|---|--------|--------------------------------|------------|-----------------|--------|-------|
|  | 3. Region No.     | 5 | Sampling Co.   | USACE | 5. Date Shipped  | 4-18-2000 | Carrier   | FED EX | 7. Date Received--Received by: | 4-19-00    | Carla Pinn      |        |       |
|  | Sampler (Name)    |   | Janie E. Carrig  |       | Airbill Number   |           | 820134806586  |        | Laboratory Contract No.        | 68-D7-0004 | Unit Price      | 525.00 |       |
|  | Sampler Signature |   | <i>Janie E Carrig</i>  |       | 6. Ship To:  |           | USEPA - ORLA<br>PDP Analytical Services<br>1680 Lake Front Circle, Suite<br>The Woodlands, Tx 77380<br>ATTN: Sean Sundquist   |        | 8. Transfer to:                |            | Date Received   |        |       |
|  | 4. Purpose**      |   | <input checked="" type="checkbox"/> SF<br><input type="checkbox"/> PRP<br><input type="checkbox"/> ST<br><input type="checkbox"/> FED<br><input type="checkbox"/> BZ |       | <input type="checkbox"/> IA<br><input type="checkbox"/> PA<br><input type="checkbox"/> REM<br><input type="checkbox"/> RI<br><input type="checkbox"/> SI<br><input type="checkbox"/> ESI |           | <input type="checkbox"/> Long-Term Action<br><input checked="" type="checkbox"/> RIFS<br><input type="checkbox"/> RO<br><input type="checkbox"/> RA<br><input type="checkbox"/> O&M |        | Received by:                   |            | Contract Number |        | Price |

| CLP Sample Numbers (from labels) | A Matrix (from Box 1)<br>Other: <u>Well</u> | B Conc.:<br><u>Low</u><br>Med | C Sample Type:<br><u>Grab</u><br>Comp/Grab | D Preservative (from Box 2)<br>Other: | E RAS Analysis  |                 |                 | F Regional Specific Tracking Number or Tag Numbers | G Station Location Identifier | H Mo/Day/Year/Time Sample Collection | I Corresponding CLP Inorganic Sample No. | J Sampler Initials | K Sample Condition |
|----------------------------------|---|-------------------------------|--|---------------------------------------|-----------------|-----------------|-----------------|--|-------------------------------|--------------------------------------|--|--------------------|--------------------|
|                                  |   |                               |  |                                       | TA (circle one) | TA (circle one) | TA (circle one) |  |                               |                                      |  |                    |                    |
|                                  |   |                               |  |                                       | PR* 7 14 21     | PR* 7 14 21     | PR* 7 14 21     |  |                               |                                      |  |                    |                    |
| EDPL5                            | 8   | LL                            | Grab                                       | 1                                     | X               | -               | -               | 5-068861, 5-068863<br>5-068866                     | 54185<br>Westwood Drive       | 04/18/00                             | N/A                                      |                    |                    |
| DPL5                             | 8   | LL                            | Grab                                       | 5                                     | -               | X               | -               | 5-068869,<br>5-068870                              | 54185 Westwood<br>Drive       | 04/18/00                             | N/A                                      |                    |                    |
| DPL6                             | 8   | LL                            | Grab                                       | 1                                     | X               | -               | -               | 5-068816<br>5-068814, 5-068815                     | 27919<br>Westwood Dr          | 04/18/00                             | N/A                                      |                    |                    |
| DPL6                             | 8   | LL                            | Grab                                       | 5                                     | -               | X               | -               | 5-068817, 5-068818                                 | 27919<br>Westwood Dr          | 04/18/00                             | N/A                                      |                    |                    |
| DPL7                             | 8   | LL                            | Grab                                       | 1                                     | X               | -               | -               | 5-068823, 5-068824<br>5-068825                     | 27883<br>Westwood Drive       | 04/18/00                             | N/A                                      |                    |                    |
| DPL7                             | 8   | LL                            | Grab                                       | 5                                     | -               | X               | -               | 5-068826<br>5-068827                               | 27883<br>Westwood Dr          | 04/18/00                             | N/A                                      |                    |                    |
| DPL8                             | 8   | LL                            | Grab                                       | 1                                     | X               | -               | -               | 5-068958, 5-068959<br>5-068956                     | 27835<br>Westwood Dr          | 04/18/00                             | N/A                                      |                    |                    |
| DPL8                             | 8   | LL                            | Grab                                       | 5                                     | -               | X               | -               | 5-068960,<br>5-068961                              | 27835<br>Westwood Dr          | 04/18/00                             | N/A                                      |                    |                    |
| DPL8                             | 8   | LL                            | Grab                                       | 1                                     | X               | -               | -               | 5-068992, 5-068993<br>5-068977                     | 27835<br>Westwood Dr          | 04/18/00                             | N/A                                      |                    |                    |
| DPL8                             | 8   | LL                            | Grab                                       | 5                                     | -               | X               | -               | 5-068951,<br>5-068952                              | 27835<br>Westwood Dr          | 04/18/00                             | N/A                                      |                    |                    |

|                                     |             |   |                               |                                 |
|-------------------------------------|-------------|---|-------------------------------|---------------------------------|
| Instrument for Case Complete? (Y/N) | Page 1 of 2 | VOA MS/MSD Required? <u>Y(N)</u> Sample #:      | Additional Sampler Signatures | Chain of Custody Seal Number(s) |
|                                     |             | BNA MS/MSD Required? <u>Y(N)</u> Sample #:      | <i>Mary Johnson</i>           | 22821, 22822                    |
|                                     |             | Pest/PCB MS/MSD Required? <u>Y(N)</u> Sample #: |                               |                                 |

provides 7-day data turnaround in addition to preliminary results. Requests for preliminary results will increase analytical costs.

Chain of Custody Record

|   |                               |  |                               |  |                           |
|---|-------------------------------|--|-------------------------------|--|---------------------------|
| Relinquished by: (Signature)<br><i>Janie Carrig</i> | Date / Time<br>4-18-00 \| 1708 | Received by: (Signature)                                     | Relinquished by: (Signature)  | Date / Time  | Received by: (Signature)  |
| Relinquished by: (Signature)                        | Date / Time                   | Received by: (Signature)                                     | Relinquished by: (Signature)  | Date / Time  | Received by: (Signature)  |
| Relinquished by: (Signature)                        | Date / Time                   | Received for Laboratory by: (Signature)<br><i>Carla Pinn</i> | Date / Time<br>4-19-00 \| 9:02 | Remarks: Is custody seal intact? <u>Y(N)</u> /none | Case: 27986<br>SDG: EDPK9 |

391564



27986

|  |  |  |                           |  |                       |   |                          |                |
|--|--|--|---------------------------|--|-----------------------|---|--------------------------|----------------|
| 1. Surface Water<br>2. Ground Water<br>3. Leachate<br>4. Field Occ.<br>5. Soil/Sediment<br>6. RE Water<br>7. RE Soil<br>8. Other (Specify in Column A) | 9. Residuals<br>10. HCl<br>11. HNO3<br>12. NaHCO3<br>13. H2SO4<br>14. H2O<br>15. H2O only<br>16. CH3OH<br>17. Other (Specify in Column D)<br>18. Not Preserved | 3. Region No. <u>5</u>                     | Sampling Co. <u>USACT</u> | 5. Date Shipped <u>4-18-2000</u>   | Carrier <u>FED EX</u> | 7. Date Received-Received by:<br><u>4-19-00 Carol Pei</u> |                          |                |
|  |  | Sampler (Name)<br><u>Jane E. Carrig</u>    |                           | Airbill Number   |                       | Laboratory Contract No. <u>68-D7-0004</u>                 | Unit Price <u>525.00</u> |                |
|  |  | Sampler Signature<br><u>Jane E. Carrig</u> |                           | 6. Ship To:<br><u>PDP Analytical Services<br/>1680 Lake Front Circle Suite<br/>The Woodlands, TX 77380</u> |                       | 8. Transfer to:   |                          | Date Received: |
|  |  | 4. Purpose**                               |                           | Early Action   |                       | Long Term Action  |                          | Received by:   |

| CLP Sample Numbers (from labels) | A Matrix (from Box 1)<br>Other: <u>Res Well</u> | B Conc.: <u>Low Med</u> | C Sample Type: <u>Grab</u> | D Preservative (from Box 2)<br>Other: | E RAS Analysis                |                               |                               | F Regional Specific Tracking Number or Tag Numbers | G Station Location Identifier | H Mo/Day/Year/Time Sample Collection | I Corresponding CLP Inorganic Sample No. | J Sampler Initials | K Sample Condition |
|----------------------------------|---|-------------------------|----------------------------|---------------------------------------|-------------------------------|-------------------------------|-------------------------------|--|-------------------------------|--------------------------------------|--|--------------------|--------------------|
|                                  |   |                         |                            |                                       | TA (circle one)<br>PR 7 14 21 | TA (circle one)<br>PR 7 14 21 | TA (circle one)<br>PR 7 14 21 |  |                               |                                      |  |                    |                    |
| <u>EDPM4</u>                     | <u>8</u>  | <u>LL</u>               | <u>Grab</u>                | <u>1</u>                              | <u>X</u>                      | <u>-</u>                      | <u>-</u>                      | <u>5-068875, 5068876</u>                           | <u>Trip Blank</u>             | <u>04/18/00, 1111</u>                | <u>NA</u>                                | <u>J</u>           |                    |

|                                   |                    |   |  |  |
|-----------------------------------|--------------------|---|--|--|
| Shipment for Case Complete? (Y/N) | Page <u>2 of 2</u> | VOA MS/MSD Required? <u>Y(N)</u> Sample #:      | Additional Sampler Signatures<br><u>Mary Johnson</u> | Chain of Custody Seal Number(s)<br><u>22821, 22822</u> |
|                                   |                    | BNA MS/MSD Required? <u>Y(N)</u> Sample #:      |  |  |
|                                   |                    | Pest/PCB MS/MSD Required? <u>Y(N)</u> Sample #: |  |  |

\*PR provides 7-day data turnaround in addition to preliminary results. Requests for preliminary results will increase analytical costs.

### Chain of Custody Record

|   |                                     |   |                                    |   |                          |
|---|-------------------------------------|---|------------------------------------|---|--------------------------|
| Relinquished by: (Signature)<br><u>Jane E. Carrig</u> | Date / Time<br><u>04/18/00 1708</u> | Received by: (Signature)                                    | Relinquished by: (Signature)       | Date / Time   | Received by: (Signature) |
| Relinquished by: (Signature)                          | Date / Time                         | Received by: (Signature)                                    | Relinquished by: (Signature)       | Date / Time   | Received by: (Signature) |
| Relinquished by: (Signature)                          | Date / Time                         | Received for Laboratory by: (Signature)<br><u>Carol Pei</u> | Date / Time<br><u>4-19-00 9:02</u> | Remarks: Is custody seal intact? <u>Y(N)/none</u> <u>Case: 27986</u><br><u>SDG: EDPK9</u> |                          |

Distribution: Blue - Region Copy  
White - Lab Copy for Return to SMO  
Pink - SMO Copy  
Yellow - Lab Copy for Return to Region

See Reverse for Additional Standard Instructions  
\*\*See Reverse for Purpose Code Definitions  
CLASS: 1

91565



United States Environmental Protection Agency  
Contract Laboratory Program

**Organic Analytical Report  
& Chain of Custody Record**  
(For Organic CLP Analysis)

SDG No.

Case No.

27980

|                    |                                   |
|--------------------|-----------------------------------|
| 1. Name            | 2. Project Name                   |
| 3. State Water     | 1. HCl                            |
| 4. Ground Water    | 2. HNO <sub>3</sub>               |
| 5. Leachate        | 3. NaHSO <sub>4</sub>             |
| 6. Field Col.      | 4. H <sub>2</sub> SO <sub>4</sub> |
| 7. Soil (Surface)  | 5. Ice only                       |
| 8. Precip.         | 6. CH <sub>3</sub> OH             |
| 9. Other (Specify) | 7. Other (Specify)                |
|                    | 8. Not Preserved                  |

3. Region No. 5 Sampling Co. USACE

5. Date Shipped 4/19/2000 Carrier FED-EX

7. Date Received-Received by: 4-20-00 Carla Pini

Sampler (Name) Mary M. Johnson Airbill Number 820134806564

Sampler Signature Mary M. Johnson

6. Ship To: PDP Analytical Services  
1680 Lake Front Crk, Suite E  
The Woodlands, TX 77380

8. Transfer to: \_\_\_\_\_ Date Received \_\_\_\_\_

Received by: \_\_\_\_\_

Contract Number \_\_\_\_\_ Price \_\_\_\_\_

4. Purpose\*\*

|  |  |   |
|--|--|---|
| <input checked="" type="checkbox"/> SF<br><input type="checkbox"/> PRP<br><input type="checkbox"/> ST<br><input type="checkbox"/> FED<br><input type="checkbox"/> BZ | <input type="checkbox"/> IA<br><input type="checkbox"/> PA<br><input type="checkbox"/> REM<br><input type="checkbox"/> RI<br><input type="checkbox"/> SI<br><input type="checkbox"/> ESI | <input type="checkbox"/> Long-Term Action<br><input type="checkbox"/> RIFS<br><input checked="" type="checkbox"/> RD<br><input type="checkbox"/> RA<br><input type="checkbox"/> O&M |
|--|--|---|

ATTN: Sean Sundquist

| CLP Sample Numbers (from labels) | A Matrix (from Box 1) Other: <u>Pres. Jel</u> | B Conc.: <u>Low Med</u> | C Sample Type: <u>Grab</u> | D Preservative (from Box 2) Other: _____ | E RAS Analysis                        |                                       |  | F Regional Specific Tracking Number or Tag Numbers | G Station Location Identifier | H Mo/Day/Year/Time Sample Collection | I Corresponding CLP Inorganic Sample No. | J Sampler Initials | K Sample Condition |
|----------------------------------|---|-------------------------|----------------------------|--|---------------------------------------|---------------------------------------|--|--|-------------------------------|--------------------------------------|--|--------------------|--------------------|
|                                  |   |                         |                            |  | TA (circle one)<br>PR* 7 14 21<br>VOA | TA (circle one)<br>PR* 7 14 21<br>BNA | TA (circle one)<br>PR* 7 14 21<br>Pest/PCB |  |                               |                                      |  |                    |                    |
| EDPM1                            | 8   | LL                      | grab                       | 1  | X                                     | —                                     | —  | <u>5-068879, 5-068878</u><br><u>5-010077</u>       | <u>27964</u>                  | <u>4/19/00</u>                       | <u>N/A</u>                               | <u>ML</u>          |                    |
| EDPM1                            | 8   | LL                      | grab                       | 5  | —                                     | X                                     | —  | <u>5-068880</u><br><u>5-068881</u>                 | <u>27964 Westwood Dr</u>      | <u>4/19/00</u>                       | <u>N/A</u>                               | <u>ML</u>          |                    |
| EDPM2                            | 8   | LL                      | grab                       | 1  | X                                     | —                                     | —  | <u>5-068885, 5-068886</u><br><u>5-068887</u>       | <u>27948 Westwood Dr</u>      | <u>4/19/00</u>                       | <u>N/A</u>                               | <u>ML</u>          |                    |
| EDPM2                            | 8   | LL                      | grab                       | 5  | —                                     | X                                     | —  | <u>5-068888, 5-068889</u>                          | <u>27948 Westwood Dr</u>      | <u>4/19/00</u>                       | <u>N/A</u>                               | <u>ML</u>          |                    |
| EDPM5                            | 8   | LL                      | grab                       | 1  | X                                     | —                                     | —  | <u>5-068893, 5-068894</u>                          | <u>Trip Blank</u>             | <u>4/19/00</u>                       | <u>N/A</u>                               | <u>ML</u>          |                    |
|                                  |   |                         |                            |  |                                       |                                       |  |  |                               |                                      |  |                    |                    |
|                                  |   |                         |                            |  |                                       |                                       |  |  |                               |                                      |  |                    |                    |
|                                  |   |                         |                            |  |                                       |                                       |  |  |                               |                                      |  |                    |                    |
|                                  |   |                         |                            |  |                                       |                                       |  |  |                               |                                      |  |                    |                    |

Shipment for Case Complete? (Y/N) \_\_\_\_\_ Page 1 of 1

VOA MS/MSD Required? Y(N) Sample #: \_\_\_\_\_ Additional Sampler Signatures Mary M. Johnson

BNA MS/MSD Required? Y(N) Sample #: \_\_\_\_\_ Chain of Custody Seal Number(s) 22827, 22828

Pest/PCB MS/MSD Required? Y(N) Sample #: \_\_\_\_\_

**Chain of Custody Record**

|   |                                  |   |                                    |  |   |
|---|----------------------------------|---|------------------------------------|--|---|
| Relinquished by: (Signature) <u>Mary M. Johnson</u> | Date / Time <u>4/19/00 11:00</u> | Received by: (Signature) _____                            | Relinquished by: (Signature) _____ | Date / Time _____                                | Received by: (Signature) _____          |
| Relinquished by: (Signature) _____                  | Date / Time _____                | Received by: (Signature) _____                            | Relinquished by: (Signature) _____ | Date / Time _____                                | Received by: (Signature) _____          |
| Relinquished by: (Signature) _____                  | Date / Time _____                | Received for Laboratory by: (Signature) <u>Carla Pini</u> | Date / Time <u>4-20-00 9:04</u>    | Remarks: Is custody seal intact? <u>Y/N</u> none | <u>Case: 27986</u><br><u>SDG: EDPK9</u> |

Distribution: Blue - Region Copy Pink - SMO Copy  
White - Lab Copy for Return to SMO Yellow - Lab Copy for Return to Region

See Reverse for Additional Standard Instructions  
\*\*See Reverse for Purpose Code Definitions

2LCA  
 LOW CONC. WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004

Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: EDPK9

|    | EPA<br>SAMPLE NO. | BFB<br>%REC # | OTHER | TOT<br>OUT |
|----|-------------------|---------------|-------|------------|
| 01 | VBLK54            | 108           |       | 0          |
| 02 | VLCS54            | 106           |       | 0          |
| 03 | EDPL7             | 109           |       | 0          |
| 04 | EDPL8             | 106           |       | 0          |
| 05 | EDPL9             | 108           |       | 0          |
| 06 | EDPM0             | 112           |       | 0          |
| 07 | EDPM4             | 110           |       | 0          |
| 08 | EDPM1             | 105           |       | 0          |
| 09 | EDPM2             | 109           |       | 0          |
| 10 | EDPM5             | 105           |       | 0          |
| 11 | VBLK55            | 114           |       | 0          |
| 12 | VLCS55            | 118           |       | 0          |
| 13 | EDPK9             | 114           |       | 0          |
| 14 | EDPL1             | 87            |       | 0          |
| 15 | EDPL3             | 90            |       | 0          |
| 16 | EDPL4             | 94            |       | 0          |
| 17 | EDPL5             | 87            |       | 0          |
| 18 | EDPL6             | 91            |       | 0          |
| 19 | EDPL0             | 90            |       | 0          |
| 20 | EDPL2             | 89            |       | 0          |
| 21 | VHBLK01           | 87            |       | 0          |
| 22 |                   |               |       |            |
| 23 |                   |               |       |            |
| 24 |                   |               |       |            |
| 25 |                   |               |       |            |
| 26 |                   |               |       |            |
| 27 |                   |               |       |            |
| 28 |                   |               |       |            |
| 29 |                   |               |       |            |
| 30 |                   |               |       |            |

QC LIMITS

%REC

BFB = Bromofluorobenzene (80-120)

# Column to be used to flag recovery values

\* Values outside of contract required QC limits

3LCA  
 LOW CONC. WATER VOLATILE LAB CONTROL SAMPLE RECOVERY

EPA SAMPLE NO.

VLC54

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: EDPK9

Lab Sample ID: FVLC5053

LCS Lot No.: 60

Lab File ID: F0879

Date Analyzed: 04/21/00

Purge Volume: 20.0 (mL)

Dilution Factor: 1.0

LCS Aliquot: 10.0 (uL)

| COMPOUND                | AMOUNT<br>ADDED<br>(ng) | AMOUNT<br>RECOVERED<br>(ng) | %REC # | QC<br>LIMITS |
|-------------------------|-------------------------|-----------------------------|--------|--------------|
| Vinyl chloride          | 100                     | 75                          | 75     | 60-140       |
| 1,2-Dichloroethane      | 100                     | 99                          | 99     | 60-140       |
| Carbon tetrachloride    | 100                     | 91                          | 91     | 60-140       |
| 1,2-Dichloropropane     | 100                     | 86                          | 86     | 60-140       |
| Trichloroethene         | 100                     | 85                          | 85     | 60-140       |
| 1,1,2-Trichloroethane   | 100                     | 76                          | 76     | 60-140       |
| Benzene                 | 100                     | 92                          | 92     | 60-140       |
| cis-1,3-Dichloropropene | 100                     | 81                          | 81     | 60-140       |
| Bromoform               | 100                     | 70                          | 70     | 60-140       |
| Tetrachloroethene       | 100                     | 86                          | 86     | 60-140       |
| 1,2-Dibromoethane       | 100                     | 74                          | 74     | 60-140       |
| 1,4-Dichlorobenzene     | 100                     | 77                          | 77     | 60-140       |

# Column to be used to flag LCS recovery with an asterisk.

\* Values outside of QC limits.

LCS Recovery: 0 outside limits out of 12 total.

COMMENTS: \_\_\_\_\_  
 \_\_\_\_\_

VLCS55

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004  
 Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: EDPK9  
 Lab Sample ID: FVLCS054      LCS Lot No.: 60  
 Lab File ID: F0893      Date Analyzed: 04/24/00  
 Purge Volume: 20.0 (mL)      Dilution Factor: 1.0  
 LCS Aliquot: 10.0 (uL)

| COMPOUND                | AMOUNT<br>ADDED<br>(ng) | AMOUNT<br>RECOVERED<br>(ng) | %REC # | QC<br>LIMITS |
|-------------------------|-------------------------|-----------------------------|--------|--------------|
| Vinyl chloride          | 100                     | 95                          | 95     | 60-140       |
| 1,2-Dichloroethane      | 100                     | 117                         | 117    | 60-140       |
| Carbon tetrachloride    | 100                     | 93                          | 93     | 60-140       |
| 1,2-Dichloropropane     | 100                     | 93                          | 93     | 60-140       |
| Trichloroethene         | 100                     | 94                          | 94     | 60-140       |
| 1,1,2-Trichloroethane   | 100                     | 89                          | 89     | 60-140       |
| Benzene                 | 100                     | 98                          | 98     | 60-140       |
| cis-1,3-Dichloropropene | 100                     | 92                          | 92     | 60-140       |
| Bromoform               | 100                     | 97                          | 97     | 60-140       |
| Tetrachloroethene       | 100                     | 92                          | 92     | 60-140       |
| 1,2-Dibromoethane       | 100                     | 86                          | 86     | 60-140       |
| 1,4-Dichlorobenzene     | 100                     | 89                          | 89     | 60-140       |

# Column to be used to flag LCS recovery with an asterisk.

\* Values outside of QC limits.

LCS Recovery: 0 outside limits out of 12 total.

COMMENTS: \_\_\_\_\_  
 \_\_\_\_\_

4LCA  
 LOW CONC. WATER VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK54

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004  
 Lab Code: PDP Case No.: 27986 SAS No.: \_\_\_\_\_ SDG No.: EDPK9  
 Lab Sample ID: FVBLK053 Date Analyzed: 04/21/00  
 Lab File ID: F0878 Time Analyzed: 2303  
 Instrument ID: F-HP5973  
 GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND LCS:

|    | EPA<br>SAMPLE NO. | LAB<br>SAMPLE ID | LAB<br>FILE ID | TIME<br>ANALYZED |
|----|-------------------|------------------|----------------|------------------|
| 01 | VLCS54            | FVLCS053         | F0879          | 2352             |
| 02 | EDPL7             | 6004.010         | F0880          | 0041             |
| 03 | EDPL8             | 6004.011         | F0881          | 0129             |
| 04 | EDPL9             | 6004.012         | F0882          | 0218             |
| 05 | EDPM0             | 6004.013         | F0883          | 0306             |
| 06 | EDPM4             | 6004.014         | F0884          | 0354             |
| 07 | EDPM1             | 6008.001         | F0885          | 0442             |
| 08 | EDPM2             | 6008.002         | F0887          | 0617             |
| 09 | EDPM5             | 6008.003         | F0888          | 0704             |
| 10 |                   |                  |                |                  |
| 11 |                   |                  |                |                  |
| 12 |                   |                  |                |                  |
| 13 |                   |                  |                |                  |
| 14 |                   |                  |                |                  |
| 15 |                   |                  |                |                  |
| 16 |                   |                  |                |                  |
| 17 |                   |                  |                |                  |
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| 19 |                   |                  |                |                  |
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| 27 |                   |                  |                |                  |
| 28 |                   |                  |                |                  |
| 29 |                   |                  |                |                  |
| 30 |                   |                  |                |                  |

COMMENTS: \_\_\_\_\_

4LCA  
 LOW CONC. WATER VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK55

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: EDPK9

Lab Sample ID: FVBLK054

Date Analyzed: 04/24/00

Lab File ID: F0892

Time Analyzed: 1037

Instrument ID: F-HP5973

GC Column: DB-624

ID: 0.53 (mm) Length: 60 (m)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND LCS:

|    | EPA<br>SAMPLE NO. | LAB<br>SAMPLE ID | LAB<br>FILE ID | TIME<br>ANALYZED |
|----|-------------------|------------------|----------------|------------------|
| 01 | VLCS55            | FVLCS054         | F0893          | 1126             |
| 02 | EDPK9             | 6004.002         | F0894          | 1215             |
| 03 | EDPL1             | 6004.004         | F0896          | 1406             |
| 04 | EDPL3             | 6004.006         | F0898          | 1534             |
| 05 | EDPL4             | 6004.007         | F0899          | 1623             |
| 06 | EDPL5             | 6004.008         | F0900          | 1712             |
| 07 | EDPL6             | 6004.009         | F0901          | 1800             |
| 08 | EDPL0             | 6004.003         | F0902          | 1849             |
| 09 | EDPL2             | 6004.005         | F0903          | 1939             |
| 10 | VHBLK01           | 6004.001         | F0904          | 2028             |
| 11 |                   |                  |                |                  |
| 12 |                   |                  |                |                  |
| 13 |                   |                  |                |                  |
| 14 |                   |                  |                |                  |
| 15 |                   |                  |                |                  |
| 16 |                   |                  |                |                  |
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| 29 |                   |                  |                |                  |
| 30 |                   |                  |                |                  |

COMMENTS:

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1LCA  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK54

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: EDPK9

Lab Sample ID: FVBLK053

Date Received: \_\_\_\_\_

Lab File ID: F0878

Date Analyzed: 04/21/00

Purge Volume: 20 (mL)

Dilution Factor: 1.0

GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

| CAS NO.    | COMPOUND                    | CONCENTRATION (ug/L) | Q |
|------------|-----------------------------|----------------------|---|
| 74-87-3    | Chloromethane               | 1                    | U |
| 74-83-9    | Bromomethane                | 1                    | U |
| 75-01-4    | Vinyl chloride              | 1                    | U |
| 75-00-3    | Chloroethane                | 1                    | U |
| 75-09-2    | Methylene chloride          | 2                    | U |
| 67-64-1    | Acetone                     | 5                    | U |
| 75-15-0    | Carbon disulfide            | 1                    | U |
| 75-35-4    | 1,1-Dichloroethene          | 1                    | U |
| 75-34-3    | 1,1-Dichloroethane          | 1                    | U |
| 156-59-2   | cis-1,2-Dichloroethene      | 1                    | U |
| 156-60-5   | trans-1,2-Dichloroethene    | 1                    | U |
| 67-66-3    | Chloroform                  | 1                    | U |
| 107-06-2   | 1,2-Dichloroethane          | 1                    | U |
| 78-93-3    | 2-Butanone                  | 5                    | U |
| 74-97-5    | Bromochloromethane          | 1                    | U |
| 71-55-6    | 1,1,1-Trichloroethane       | 1                    | U |
| 56-23-5    | Carbon tetrachloride        | 1                    | U |
| 75-27-4    | Bromodichloromethane        | 1                    | U |
| 78-87-5    | 1,2-Dichloropropane         | 1                    | U |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1                    | U |
| 79-01-6    | Trichloroethene             | 1                    | U |
| 124-48-1   | Dibromochloromethane        | 1                    | U |
| 79-00-5    | 1,1,2-Trichloroethane       | 1                    | U |
| 71-43-2    | Benzene                     | 1                    | U |
| 10061-02-6 | trans-1,3-Dichloropropene   | 1                    | U |
| 75-25-2    | Bromoform                   | 1                    | U |
| 108-10-1   | 4-Methyl-2-pentanone        | 5                    | U |
| 591-78-6   | 2-Hexanone                  | 5                    | U |
| 127-18-4   | Tetrachloroethene           | 1                    | U |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 1                    | U |
| 106-93-4   | 1,2-Dibromoethane           | 1                    | U |
| 108-88-3   | Toluene                     | 1                    | U |
| 108-90-7   | Chlorobenzene               | 1                    | U |
| 100-41-4   | Ethylbenzene                | 1                    | U |
| 100-42-5   | Styrene                     | 1                    | U |
| 1330-20-7  | Xylenes (total)             | 1                    | U |
| 541-73-1   | 1,3-Dichlorobenzene         | 1                    | U |
| 106-46-7   | 1,4-Dichlorobenzene         | 1                    | U |
| 95-50-1    | 1,2-Dichlorobenzene         | 1                    | U |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | 1                    | U |
| 120-82-1   | 1,2,4-Trichlorobenzene      | 1                    | U |

1LCE  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK54

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004

Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: EDPK9

Lab Sample ID: FVBLK053      Date Received: \_\_\_\_\_

Lab File ID: F0878      Date Analyzed: 04/21/00

Purge Volume: 20 (mL)      Dilution Factor: 1.0

GC Column: DB-624      ID: 0.53 (mm) Length: 60 (m)

Number TICs found: 0

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC.<br>(ug/L) | Q |
|------------|---------------|----|----------------------|---|
| 1.         |               |    |                      |   |
| 2.         |               |    |                      |   |
| 3.         |               |    |                      |   |
| 4.         |               |    |                      |   |
| 5.         |               |    |                      |   |
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| 18.        |               |    |                      |   |
| 19.        |               |    |                      |   |
| 20.        |               |    |                      |   |
| 21.        |               |    |                      |   |
| 22.        |               |    |                      |   |
| 23.        |               |    |                      |   |
| 24.        |               |    |                      |   |
| 25.        |               |    |                      |   |
| 26.        |               |    |                      |   |
| 27.        |               |    |                      |   |
| 28.        |               |    |                      |   |
| 29.        |               |    |                      |   |
| 30.        |               |    |                      |   |

1LCA  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK55

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: EDPK9

Lab Sample ID: FVBLK054

Date Received: \_\_\_\_\_

Lab File ID: F0892

Date Analyzed: 04/24/00

Purge Volume: 20 (mL)

Dilution Factor: 1.0

GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

| CAS NO.    | COMPOUND                    | CONCENTRATION<br>(ug/L) | Q |
|------------|-----------------------------|-------------------------|---|
| 74-87-3    | Chloromethane               | 1                       | U |
| 74-83-9    | Bromomethane                | 1                       | U |
| 75-01-4    | Vinyl chloride              | 1                       | U |
| 75-00-3    | Chloroethane                | 1                       | U |
| 75-09-2    | Methylene chloride          | 2                       | U |
| 67-64-1    | Acetone                     | 5                       | U |
| 75-15-0    | Carbon disulfide            | 1                       | U |
| 75-35-4    | 1,1-Dichloroethene          | 1                       | U |
| 75-34-3    | 1,1-Dichloroethane          | 1                       | U |
| 156-59-2   | cis-1,2-Dichloroethene      | 1                       | U |
| 156-60-5   | trans-1,2-Dichloroethene    | 1                       | U |
| 67-66-3    | Chloroform                  | 1                       | U |
| 107-06-2   | 1,2-Dichloroethane          | 1                       | U |
| 78-93-3    | 2-Butanone                  | 5                       | U |
| 74-97-5    | Bromochloromethane          | 1                       | U |
| 71-55-6    | 1,1,1-Trichloroethane       | 1                       | U |
| 56-23-5    | Carbon tetrachloride        | 1                       | U |
| 75-27-4    | Bromodichloromethane        | 1                       | U |
| 78-87-5    | 1,2-Dichloropropane         | 1                       | U |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1                       | U |
| 79-01-6    | Trichloroethene             | 1                       | U |
| 124-48-1   | Dibromochloromethane        | 1                       | U |
| 79-00-5    | 1,1,2-Trichloroethane       | 1                       | U |
| 71-43-2    | Benzene                     | 1                       | U |
| 10061-02-6 | trans-1,3-Dichloropropene   | 1                       | U |
| 75-25-2    | Bromoform                   | 1                       | U |
| 108-10-1   | 4-Methyl-2-pentanone        | 5                       | U |
| 591-78-6   | 2-Hexanone                  | 5                       | U |
| 127-18-4   | Tetrachloroethene           | 1                       | U |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 1                       | U |
| 106-93-4   | 1,2-Dibromoethane           | 1                       | U |
| 108-88-3   | Toluene                     | 1                       | U |
| 108-90-7   | Chlorobenzene               | 1                       | U |
| 100-41-4   | Ethylbenzene                | 1                       | U |
| 100-42-5   | Styrene                     | 1                       | U |
| 1330-20-7  | Xylenes (total)             | 1                       | U |
| 541-73-1   | 1,3-Dichlorobenzene         | 1                       | U |
| 106-46-7   | 1,4-Dichlorobenzene         | 1                       | U |
| 95-50-1    | 1,2-Dichlorobenzene         | 1                       | U |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | 1                       | U |
| 120-82-1   | 1,2,4-Trichlorobenzene      | 1                       | U |

000231

1LCE  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK55

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004

Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: EDPK9

Lab Sample ID: FVBLK054      Date Received: \_\_\_\_\_

Lab File ID: F0892      Date Analyzed: 04/24/00

Purge Volume: 20 (mL)      Dilution Factor: 1.0

GC Column: DB-624      ID: 0.53 (mm) Length: 60 (m)

Number TICs found: 0

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC.<br>(ug/L) | Q |
|------------|---------------|----|----------------------|---|
| 1.         |               |    |                      |   |
| 2.         |               |    |                      |   |
| 3.         |               |    |                      |   |
| 4.         |               |    |                      |   |
| 5.         |               |    |                      |   |
| 6.         |               |    |                      |   |
| 7.         |               |    |                      |   |
| 8.         |               |    |                      |   |
| 9.         |               |    |                      |   |
| 10.        |               |    |                      |   |
| 11.        |               |    |                      |   |
| 12.        |               |    |                      |   |
| 13.        |               |    |                      |   |
| 14.        |               |    |                      |   |
| 15.        |               |    |                      |   |
| 16.        |               |    |                      |   |
| 17.        |               |    |                      |   |
| 18.        |               |    |                      |   |
| 19.        |               |    |                      |   |
| 20.        |               |    |                      |   |
| 21.        |               |    |                      |   |
| 22.        |               |    |                      |   |
| 23.        |               |    |                      |   |
| 24.        |               |    |                      |   |
| 25.        |               |    |                      |   |
| 26.        |               |    |                      |   |
| 27.        |               |    |                      |   |
| 28.        |               |    |                      |   |
| 29.        |               |    |                      |   |
| 30.        |               |    |                      |   |

1LCA  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VHBLK01

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004  
 Lab Code: PDP Case No.: 27986 SAS No.: \_\_\_\_\_ SDG No.: EDPK9  
 Lab Sample ID: 6004.001 Date Received: 04/19/00  
 Lab File ID: F0904 Date Analyzed: 04/24/00  
 Purge Volume: 20 (mL) Dilution Factor: 1.0  
 GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

| CAS NO.    | COMPOUND                    | CONCENTRATION (ug/L) | Q |
|------------|-----------------------------|----------------------|---|
| 74-87-3    | Chloromethane               | 1                    | U |
| 74-83-9    | Bromomethane                | 1                    | U |
| 75-01-4    | Vinyl chloride              | 1                    | U |
| 75-00-3    | Chloroethane                | 1                    | U |
| 75-09-2    | Methylene chloride          | 2                    | U |
| 67-64-1    | Acetone                     | 5                    | U |
| 75-15-0    | Carbon disulfide            | 1                    | U |
| 75-35-4    | 1,1-Dichloroethene          | 1                    | U |
| 75-34-3    | 1,1-Dichloroethane          | 1                    | U |
| 156-59-2   | cis-1,2-Dichloroethene      | 1                    | U |
| 156-60-5   | trans-1,2-Dichloroethene    | 1                    | U |
| 67-66-3    | Chloroform                  | 1                    | U |
| 107-06-2   | 1,2-Dichloroethane          | 1                    | U |
| 78-93-3    | 2-Butanone                  | 5                    | U |
| 74-97-5    | Bromochloromethane          | 1                    | U |
| 71-55-6    | 1,1,1-Trichloroethane       | 1                    | U |
| 56-23-5    | Carbon tetrachloride        | 1                    | U |
| 75-27-4    | Bromodichloromethane        | 1                    | U |
| 78-87-5    | 1,2-Dichloropropane         | 1                    | U |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1                    | U |
| 79-01-6    | Trichloroethene             | 1                    | U |
| 124-48-1   | Dibromochloromethane        | 1                    | U |
| 79-00-5    | 1,1,2-Trichloroethane       | 1                    | U |
| 71-43-2    | Benzene                     | 1                    | U |
| 10061-02-6 | trans-1,3-Dichloropropene   | 1                    | U |
| 75-25-2    | Bromoform                   | 1                    | U |
| 108-10-1   | 4-Methyl-2-pentanone        | 5                    | U |
| 591-78-6   | 2-Hexanone                  | 5                    | U |
| 127-18-4   | Tetrachloroethene           | 1                    | U |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 1                    | U |
| 106-93-4   | 1,2-Dibromoethane           | 1                    | U |
| 108-88-3   | Toluene                     | 1                    | U |
| 108-90-7   | Chlorobenzene               | 1                    | U |
| 100-41-4   | Ethylbenzene                | 1                    | U |
| 100-42-5   | Styrene                     | 1                    | U |
| 1330-20-7  | Xylenes (total)             | 1                    | U |
| 541-73-1   | 1,3-Dichlorobenzene         | 1                    | U |
| 106-46-7   | 1,4-Dichlorobenzene         | 1                    | U |
| 95-50-1    | 1,2-Dichlorobenzene         | 1                    | U |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | 1                    | U |
| 120-82-1   | 1,2,4-Trichlorobenzene      | 1                    | U |

1LCE  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VHBLK01

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004

Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: EDPK9

Lab Sample ID: 6004.001      Date Received: 04/19/00

Lab File ID: F0904      Date Analyzed: 04/24/00

Purge Volume: 20 (mL)      Dilution Factor: 1.0

GC Column: DB-624      ID: 0.53 (mm) Length: 60 (m)

Number TICs found: 0

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC.<br>(ug/L) | Q |
|------------|---------------|----|----------------------|---|
| 1.         |               |    |                      |   |
| 2.         |               |    |                      |   |
| 3.         |               |    |                      |   |
| 4.         |               |    |                      |   |
| 5.         |               |    |                      |   |
| 6.         |               |    |                      |   |
| 7.         |               |    |                      |   |
| 8.         |               |    |                      |   |
| 9.         |               |    |                      |   |
| 10.        |               |    |                      |   |
| 11.        |               |    |                      |   |
| 12.        |               |    |                      |   |
| 13.        |               |    |                      |   |
| 14.        |               |    |                      |   |
| 15.        |               |    |                      |   |
| 16.        |               |    |                      |   |
| 17.        |               |    |                      |   |
| 18.        |               |    |                      |   |
| 19.        |               |    |                      |   |
| 20.        |               |    |                      |   |
| 21.        |               |    |                      |   |
| 22.        |               |    |                      |   |
| 23.        |               |    |                      |   |
| 24.        |               |    |                      |   |
| 25.        |               |    |                      |   |
| 26.        |               |    |                      |   |
| 27.        |               |    |                      |   |
| 28.        |               |    |                      |   |
| 29.        |               |    |                      |   |
| 30.        |               |    |                      |   |

000240

1LCA  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDPK9

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: EDPK9

Lab Sample ID: 6004.002

Date Received: 04/19/00

Lab File ID: F0894

Date Analyzed: 04/24/00

Purge Volume: 20 (mL)

Dilution Factor: 1.0

GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

| CAS NO.    | COMPOUND                    | CONCENTRATION<br>(ug/L) | Q |
|------------|-----------------------------|-------------------------|---|
| 74-87-3    | Chloromethane               | 1                       | U |
| 74-83-9    | Bromomethane                | 1                       | U |
| 75-01-4    | Vinyl chloride              | 1                       | U |
| 75-00-3    | Chloroethane                | 1                       | U |
| 75-09-2    | Methylene chloride          | 6                       |   |
| 67-64-1    | Acetone                     | 5                       | U |
| 75-15-0    | Carbon disulfide            | 1                       | U |
| 75-35-4    | 1,1-Dichloroethene          | 1                       | U |
| 75-34-3    | 1,1-Dichloroethane          | 12                      |   |
| 156-59-2   | cis-1,2-Dichloroethene      | 0.8                     | J |
| 156-60-5   | trans-1,2-Dichloroethene    | 1                       | U |
| 67-66-3    | Chloroform                  | 1                       | U |
| 107-06-2   | 1,2-Dichloroethane          | 1                       | U |
| 78-93-3    | 2-Butanone                  | 5                       | U |
| 74-97-5    | Bromochloromethane          | 1                       | U |
| 71-55-6    | 1,1,1-Trichloroethane       | 1                       | U |
| 56-23-5    | Carbon tetrachloride        | 1                       | U |
| 75-27-4    | Bromodichloromethane        | 1                       | U |
| 78-87-5    | 1,2-Dichloropropane         | 1                       | U |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1                       | U |
| 79-01-6    | Trichloroethene             | 1                       | U |
| 124-48-1   | Dibromochloromethane        | 1                       | U |
| 79-00-5    | 1,1,2-Trichloroethane       | 1                       | U |
| 71-43-2    | Benzene                     | 1                       | U |
| 10061-02-6 | trans-1,3-Dichloropropene   | 1                       | U |
| 75-25-2    | Bromoform                   | 1                       | U |
| 108-10-1   | 4-Methyl-2-pentanone        | 5                       | U |
| 591-78-6   | 2-Hexanone                  | 5                       | U |
| 127-18-4   | Tetrachloroethene           | 1                       | U |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 1                       | U |
| 106-93-4   | 1,2-Dibromoethane           | 1                       | U |
| 108-88-3   | Toluene                     | 1                       | U |
| 108-90-7   | Chlorobenzene               | 1                       | U |
| 100-41-4   | Ethylbenzene                | 1                       | U |
| 100-42-5   | Styrene                     | 1                       | U |
| 1330-20-7  | Xylenes (total)             | 1                       | U |
| 541-73-1   | 1,3-Dichlorobenzene         | 1                       | U |
| 106-46-7   | 1,4-Dichlorobenzene         | 1                       | U |
| 95-50-1    | 1,2-Dichlorobenzene         | 1                       | U |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | 1                       | U |
| 120-82-1   | 1,2,4-Trichlorobenzene      | 1                       | U |

1LCE  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EDPK9

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004

Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: EDPK9

Lab Sample ID: 6004.002      Date Received: 04/19/00

Lab File ID: F0894      Date Analyzed: 04/24/00

Purge Volume: 20 (mL)      Dilution Factor: 1.0

GC Column: DB-624      ID: 0.53 (mm) Length: 60 (m)

Number TICs found: 0

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC.<br>(ug/L) | Q |
|------------|---------------|----|----------------------|---|
| 1.         |               |    |                      |   |
| 2.         |               |    |                      |   |
| 3.         |               |    |                      |   |
| 4.         |               |    |                      |   |
| 5.         |               |    |                      |   |
| 6.         |               |    |                      |   |
| 7.         |               |    |                      |   |
| 8.         |               |    |                      |   |
| 9.         |               |    |                      |   |
| 10.        |               |    |                      |   |
| 11.        |               |    |                      |   |
| 12.        |               |    |                      |   |
| 13.        |               |    |                      |   |
| 14.        |               |    |                      |   |
| 15.        |               |    |                      |   |
| 16.        |               |    |                      |   |
| 17.        |               |    |                      |   |
| 18.        |               |    |                      |   |
| 19.        |               |    |                      |   |
| 20.        |               |    |                      |   |
| 21.        |               |    |                      |   |
| 22.        |               |    |                      |   |
| 23.        |               |    |                      |   |
| 24.        |               |    |                      |   |
| 25.        |               |    |                      |   |
| 26.        |               |    |                      |   |
| 27.        |               |    |                      |   |
| 28.        |               |    |                      |   |
| 29.        |               |    |                      |   |
| 30.        |               |    |                      |   |

1LCA  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDPL0

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: EDPK9

Lab Sample ID: 6004.003

Date Received: 04/19/00

Lab File ID: F0902

Date Analyzed: 04/24/00

Purge Volume: 20 (mL)

Dilution Factor: 1.0

GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

| CAS NO.    | COMPOUND                    | CONCENTRATION (ug/L) | Q |
|------------|-----------------------------|----------------------|---|
| 74-87-3    | Chloromethane               | 1                    | U |
| 74-83-9    | Bromomethane                | 1                    | U |
| 75-01-4    | Vinyl chloride              | 1                    | U |
| 75-00-3    | Chloroethane                | 1                    | U |
| 75-09-2    | Methylene chloride          | 2                    | U |
| 67-64-1    | Acetone                     | 5                    | U |
| 75-15-0    | Carbon disulfide            | 1                    | U |
| 75-35-4    | 1,1-Dichloroethene          | 1                    | U |
| 75-34-3    | 1,1-Dichloroethane          | 1                    | U |
| 156-59-2   | cis-1,2-Dichloroethene      | 1                    | U |
| 156-60-5   | trans-1,2-Dichloroethene    | 1                    | U |
| 67-66-3    | Chloroform                  | 1                    | U |
| 107-06-2   | 1,2-Dichloroethane          | 1                    | U |
| 78-93-3    | 2-Butanone                  | 5                    | U |
| 74-97-5    | Bromochloromethane          | 1                    | U |
| 71-55-6    | 1,1,1-Trichloroethane       | 1                    | U |
| 56-23-5    | Carbon tetrachloride        | 1                    | U |
| 75-27-4    | Bromodichloromethane        | 1                    | U |
| 78-87-5    | 1,2-Dichloropropane         | 1                    | U |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1                    | U |
| 79-01-6    | Trichloroethene             | 1                    | U |
| 124-48-1   | Dibromochloromethane        | 1                    | U |
| 79-00-5    | 1,1,2-Trichloroethane       | 1                    | U |
| 71-43-2    | Benzene                     | 1                    | U |
| 10061-02-6 | trans-1,3-Dichloropropene   | 1                    | U |
| 75-25-2    | Bromoform                   | 1                    | U |
| 108-10-1   | 4-Methyl-2-pentanone        | 5                    | U |
| 591-78-6   | 2-Hexanone                  | 5                    | U |
| 127-18-4   | Tetrachloroethene           | 1                    | U |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 1                    | U |
| 106-93-4   | 1,2-Dibromoethane           | 1                    | U |
| 108-88-3   | Toluene                     | 1                    | U |
| 108-90-7   | Chlorobenzene               | 1                    | U |
| 100-41-4   | Ethylbenzene                | 1                    | U |
| 100-42-5   | Styrene                     | 1                    | U |
| 1330-20-7  | Xylenes (total)             | 1                    | U |
| 541-73-1   | 1,3-Dichlorobenzene         | 1                    | U |
| 106-46-7   | 1,4-Dichlorobenzene         | 1                    | U |
| 95-50-1    | 1,2-Dichlorobenzene         | 1                    | U |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | 1                    | U |
| 120-82-1   | 1,2,4-Trichlorobenzene      | 1                    | U |

000030

1LCE  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EDPL0

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004

Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: EDPK9

Lab Sample ID: 6004.003      Date Received: 04/19/00

Lab File ID: F0902      Date Analyzed: 04/24/00

Purge Volume: 20 (mL)      Dilution Factor: 1.0

GC Column: DB-624      ID: 0.53 (mm) Length: 60 (m)

Number TICs found: 0

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC.<br>(ug/L) | Q |
|------------|---------------|----|----------------------|---|
| 1.         |               |    |                      |   |
| 2.         |               |    |                      |   |
| 3.         |               |    |                      |   |
| 4.         |               |    |                      |   |
| 5.         |               |    |                      |   |
| 6.         |               |    |                      |   |
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| 16.        |               |    |                      |   |
| 17.        |               |    |                      |   |
| 18.        |               |    |                      |   |
| 19.        |               |    |                      |   |
| 20.        |               |    |                      |   |
| 21.        |               |    |                      |   |
| 22.        |               |    |                      |   |
| 23.        |               |    |                      |   |
| 24.        |               |    |                      |   |
| 25.        |               |    |                      |   |
| 26.        |               |    |                      |   |
| 27.        |               |    |                      |   |
| 28.        |               |    |                      |   |
| 29.        |               |    |                      |   |
| 30.        |               |    |                      |   |

000031

1LCA  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDPL1

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004  
 Lab Code: PDP Case No.: 27986 SAS No.: \_\_\_\_\_ SDG No.: EDPK9  
 Lab Sample ID: 6004.004 Date Received: 04/19/00  
 Lab File ID: F0896 Date Analyzed: 04/24/00  
 Purge Volume: 20 (mL) Dilution Factor: 1.0  
 GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

| CAS NO.    | COMPOUND                    | CONCENTRATION (ug/L) | Q |
|------------|-----------------------------|----------------------|---|
| 74-87-3    | Chloromethane               | 1                    | U |
| 74-83-9    | Bromomethane                | 1                    | U |
| 75-01-4    | Vinyl chloride              | 1                    | U |
| 75-00-3    | Chloroethane                | 1                    | U |
| 75-09-2    | Methylene chloride          | 2                    | U |
| 67-64-1    | Acetone                     | 5                    | U |
| 75-15-0    | Carbon disulfide            | 1                    | U |
| 75-35-4    | 1,1-Dichloroethene          | 1                    | U |
| 75-34-3    | 1,1-Dichloroethane          | 0.8                  | J |
| 156-59-2   | cis-1,2-Dichloroethene      | 1                    | U |
| 156-60-5   | trans-1,2-Dichloroethene    | 1                    | U |
| 67-66-3    | Chloroform                  | 1                    | U |
| 107-06-2   | 1,2-Dichloroethane          | 1                    | U |
| 78-93-3    | 2-Butanone                  | 5                    | U |
| 74-97-5    | Bromochloromethane          | 1                    | U |
| 71-55-6    | 1,1,1-Trichloroethane       | 1                    | U |
| 56-23-5    | Carbon tetrachloride        | 1                    | U |
| 75-27-4    | Bromodichloromethane        | 1                    | U |
| 78-87-5    | 1,2-Dichloropropane         | 1                    | U |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1                    | U |
| 79-01-6    | Trichloroethene             | 1                    | U |
| 124-48-1   | Dibromochloromethane        | 1                    | U |
| 79-00-5    | 1,1,2-Trichloroethane       | 1                    | U |
| 71-43-2    | Benzene                     | 1                    | U |
| 10061-02-6 | trans-1,3-Dichloropropene   | 1                    | U |
| 75-25-2    | Bromoform                   | 1                    | U |
| 108-10-1   | 4-Methyl-2-pentanone        | 5                    | U |
| 591-78-6   | 2-Hexanone                  | 5                    | U |
| 127-18-4   | Tetrachloroethene           | 1                    | U |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 1                    | U |
| 106-93-4   | 1,2-Dibromoethane           | 1                    | U |
| 108-88-3   | Toluene                     | 1                    | U |
| 108-90-7   | Chlorobenzene               | 1                    | U |
| 100-41-4   | Ethylbenzene                | 1                    | U |
| 100-42-5   | Styrene                     | 1                    | U |
| 1330-20-7  | Xylenes (total)             | 1                    | U |
| 541-73-1   | 1,3-Dichlorobenzene         | 1                    | U |
| 106-46-7   | 1,4-Dichlorobenzene         | 1                    | U |
| 95-50-1    | 1,2-Dichlorobenzene         | 1                    | U |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | 1                    | U |
| 120-82-1   | 1,2,4-Trichlorobenzene      | 1                    | U |

000038

1LCE  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EDPL1

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004

Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: EDPK9

Lab Sample ID: 6004.004      Date Received: 04/19/00

Lab File ID: F0896      Date Analyzed: 04/24/00

Purge Volume: 20 (mL)      Dilution Factor: 1.0

GC Column: DB-624      ID: 0.53 (mm) Length: 60 (m)

Number TICs found: 0

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC.<br>(ug/L) | Q |
|------------|---------------|----|----------------------|---|
| 1.         |               |    |                      |   |
| 2.         |               |    |                      |   |
| 3.         |               |    |                      |   |
| 4.         |               |    |                      |   |
| 5.         |               |    |                      |   |
| 6.         |               |    |                      |   |
| 7.         |               |    |                      |   |
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| 10.        |               |    |                      |   |
| 11.        |               |    |                      |   |
| 12.        |               |    |                      |   |
| 13.        |               |    |                      |   |
| 14.        |               |    |                      |   |
| 15.        |               |    |                      |   |
| 16.        |               |    |                      |   |
| 17.        |               |    |                      |   |
| 18.        |               |    |                      |   |
| 19.        |               |    |                      |   |
| 20.        |               |    |                      |   |
| 21.        |               |    |                      |   |
| 22.        |               |    |                      |   |
| 23.        |               |    |                      |   |
| 24.        |               |    |                      |   |
| 25.        |               |    |                      |   |
| 26.        |               |    |                      |   |
| 27.        |               |    |                      |   |
| 28.        |               |    |                      |   |
| 29.        |               |    |                      |   |
| 30.        |               |    |                      |   |

1LCA  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDPL2

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004  
 Lab Code: PDP Case No.: 27986 SAS No.: \_\_\_\_\_ SDG No.: EDPK9  
 Lab Sample ID: 6004.005 Date Received: 04/19/00  
 Lab File ID: F0903 Date Analyzed: 04/24/00  
 Purge Volume: 20 (mL) Dilution Factor: 1.0  
 GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

| CAS NO.    | COMPOUND                    | CONCENTRATION (ug/L) | Q |
|------------|-----------------------------|----------------------|---|
| 74-87-3    | Chloromethane               | 1                    | U |
| 74-83-9    | Bromomethane                | 1                    | U |
| 75-01-4    | Vinyl chloride              | 1                    | U |
| 75-00-3    | Chloroethane                | 1                    | U |
| 75-09-2    | Methylene chloride          | 2                    | U |
| 67-64-1    | Acetone                     | 5                    | U |
| 75-15-0    | Carbon disulfide            | 1                    | U |
| 75-35-4    | 1,1-Dichloroethene          | 1                    | U |
| 75-34-3    | 1,1-Dichloroethane          | 1                    | U |
| 156-59-2   | cis-1,2-Dichloroethene      | 1                    | U |
| 156-60-5   | trans-1,2-Dichloroethene    | 1                    | U |
| 67-66-3    | Chloroform                  | 1                    | U |
| 107-06-2   | 1,2-Dichloroethane          | 1                    | U |
| 78-93-3    | 2-Butanone                  | 5                    | U |
| 74-97-5    | Bromochloromethane          | 1                    | U |
| 71-55-6    | 1,1,1-Trichloroethane       | 1                    | U |
| 56-23-5    | Carbon tetrachloride        | 1                    | U |
| 75-27-4    | Bromodichloromethane        | 1                    | U |
| 78-87-5    | 1,2-Dichloropropane         | 1                    | U |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1                    | U |
| 79-01-6    | Trichloroethene             | 1                    | U |
| 124-48-1   | Dibromochloromethane        | 1                    | U |
| 79-00-5    | 1,1,2-Trichloroethane       | 1                    | U |
| 71-43-2    | Benzene                     | 1                    | U |
| 10061-02-6 | trans-1,3-Dichloropropene   | 1                    | U |
| 75-25-2    | Bromoform                   | 1                    | U |
| 108-10-1   | 4-Methyl-2-pentanone        | 5                    | U |
| 591-78-6   | 2-Hexanone                  | 5                    | U |
| 127-18-4   | Tetrachloroethene           | 1                    | U |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 1                    | U |
| 106-93-4   | 1,2-Dibromoethane           | 1                    | U |
| 108-88-3   | Toluene                     | 1                    | U |
| 108-90-7   | Chlorobenzene               | 1                    | U |
| 100-41-4   | Ethylbenzene                | 1                    | U |
| 100-42-5   | Styrene                     | 1                    | U |
| 1330-20-7  | Xylenes (total)             | 1                    | U |
| 541-73-1   | 1,3-Dichlorobenzene         | 1                    | U |
| 106-46-7   | 1,4-Dichlorobenzene         | 1                    | U |
| 95-50-1    | 1,2-Dichlorobenzene         | 1                    | U |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | 1                    | U |
| 120-82-1   | 1,2,4-Trichlorobenzene      | 1                    | U |

000047

1LCE  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EDPL2

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004

Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: EDPK9

Lab Sample ID: 6004.005      Date Received: 04/19/00

Lab File ID: F0903      Date Analyzed: 04/24/00

Purge Volume: 20 (mL)      Dilution Factor: 1.0

GC Column: DB-624      ID: 0.53 (mm) Length: 60 (m)

Number TICs found: 0

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC.<br>(ug/L) | Q |
|------------|---------------|----|----------------------|---|
| 1.         |               |    |                      |   |
| 2.         |               |    |                      |   |
| 3.         |               |    |                      |   |
| 4.         |               |    |                      |   |
| 5.         |               |    |                      |   |
| 6.         |               |    |                      |   |
| 7.         |               |    |                      |   |
| 8.         |               |    |                      |   |
| 9.         |               |    |                      |   |
| 10.        |               |    |                      |   |
| 11.        |               |    |                      |   |
| 12.        |               |    |                      |   |
| 13.        |               |    |                      |   |
| 14.        |               |    |                      |   |
| 15.        |               |    |                      |   |
| 16.        |               |    |                      |   |
| 17.        |               |    |                      |   |
| 18.        |               |    |                      |   |
| 19.        |               |    |                      |   |
| 20.        |               |    |                      |   |
| 21.        |               |    |                      |   |
| 22.        |               |    |                      |   |
| 23.        |               |    |                      |   |
| 24.        |               |    |                      |   |
| 25.        |               |    |                      |   |
| 26.        |               |    |                      |   |
| 27.        |               |    |                      |   |
| 28.        |               |    |                      |   |
| 29.        |               |    |                      |   |
| 30.        |               |    |                      |   |

000048

1LCA  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDPL3

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004  
 Lab Code: PDP Case No.: 27986 SAS No.: \_\_\_\_\_ SDG No.: EDPK9  
 Lab Sample ID: 6004.006 Date Received: 04/19/00  
 Lab File ID: F0898 Date Analyzed: 04/24/00  
 Purge Volume: 20 (mL) Dilution Factor: 1.0  
 GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

| CAS NO.    | COMPOUND                    | CONCENTRATION<br>(ug/L) | Q |
|------------|-----------------------------|-------------------------|---|
| 74-87-3    | Chloromethane               | 1                       | U |
| 74-83-9    | Bromomethane                | 1                       | U |
| 75-01-4    | Vinyl chloride              | 1                       | U |
| 75-00-3    | Chloroethane                | 1                       | U |
| 75-09-2    | Methylene chloride          | 2                       | U |
| 67-64-1    | Acetone                     | 5                       | U |
| 75-15-0    | Carbon disulfide            | 1                       | U |
| 75-35-4    | 1,1-Dichloroethene          | 1                       | U |
| 75-34-3    | 1,1-Dichloroethane          | 1                       | U |
| 156-59-2   | cis-1,2-Dichloroethene      | 1                       | U |
| 156-60-5   | trans-1,2-Dichloroethene    | 1                       | U |
| 67-66-3    | Chloroform                  | 1                       | U |
| 107-06-2   | 1,2-Dichloroethane          | 1                       | U |
| 78-93-3    | 2-Butanone                  | 5                       | U |
| 74-97-5    | Bromochloromethane          | 1                       | U |
| 71-55-6    | 1,1,1-Trichloroethane       | 1                       | U |
| 56-23-5    | Carbon tetrachloride        | 1                       | U |
| 75-27-4    | Bromodichloromethane        | 1                       | U |
| 78-87-5    | 1,2-Dichloropropane         | 1                       | U |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1                       | U |
| 79-01-6    | Trichloroethene             | 1                       | U |
| 124-48-1   | Dibromochloromethane        | 1                       | U |
| 79-00-5    | 1,1,2-Trichloroethane       | 1                       | U |
| 71-43-2    | Benzene                     | 1                       | U |
| 10061-02-6 | trans-1,3-Dichloropropene   | 1                       | U |
| 75-25-2    | Bromoform                   | 1                       | U |
| 108-10-1   | 4-Methyl-2-pentanone        | 5                       | U |
| 591-78-6   | 2-Hexanone                  | 5                       | U |
| 127-18-4   | Tetrachloroethene           | 1                       | U |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 1                       | U |
| 106-93-4   | 1,2-Dibromoethane           | 1                       | U |
| 108-88-3   | Toluene                     | 1                       | U |
| 108-90-7   | Chlorobenzene               | 1                       | U |
| 100-41-4   | Ethylbenzene                | 1                       | U |
| 100-42-5   | Styrene                     | 1                       | U |
| 1330-20-7  | Xylenes (total)             | 1                       | U |
| 541-73-1   | 1,3-Dichlorobenzene         | 1                       | U |
| 106-46-7   | 1,4-Dichlorobenzene         | 1                       | U |
| 95-50-1    | 1,2-Dichlorobenzene         | 1                       | U |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | 1                       | U |
| 120-82-1   | 1,2,4-Trichlorobenzene      | 1                       | U |

000055

1LCE  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EDPL3

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004

Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: EDPK9

Lab Sample ID: 6004.006      Date Received: 04/19/00

Lab File ID: F0898      Date Analyzed: 04/24/00

Purge Volume: 20 (mL)      Dilution Factor: 1.0

GC Column: DB-624      ID: 0.53 (mm) Length: 60 (m)

Number TICs found: 0

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC.<br>(ug/L) | Q |
|------------|---------------|----|----------------------|---|
| 1.         |               |    |                      |   |
| 2.         |               |    |                      |   |
| 3.         |               |    |                      |   |
| 4.         |               |    |                      |   |
| 5.         |               |    |                      |   |
| 6.         |               |    |                      |   |
| 7.         |               |    |                      |   |
| 8.         |               |    |                      |   |
| 9.         |               |    |                      |   |
| 10.        |               |    |                      |   |
| 11.        |               |    |                      |   |
| 12.        |               |    |                      |   |
| 13.        |               |    |                      |   |
| 14.        |               |    |                      |   |
| 15.        |               |    |                      |   |
| 16.        |               |    |                      |   |
| 17.        |               |    |                      |   |
| 18.        |               |    |                      |   |
| 19.        |               |    |                      |   |
| 20.        |               |    |                      |   |
| 21.        |               |    |                      |   |
| 22.        |               |    |                      |   |
| 23.        |               |    |                      |   |
| 24.        |               |    |                      |   |
| 25.        |               |    |                      |   |
| 26.        |               |    |                      |   |
| 27.        |               |    |                      |   |
| 28.        |               |    |                      |   |
| 29.        |               |    |                      |   |
| 30.        |               |    |                      |   |

1LCA  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDPL4

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004  
 Lab Code: PDP Case No.: 27986 SAS No.: \_\_\_\_\_ SDG No.: EDPK9  
 Lab Sample ID: 6004.007 Date Received: 04/19/00  
 Lab File ID: F0899 Date Analyzed: 04/24/00  
 Purge Volume: 20 (mL) Dilution Factor: 1.0  
 GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

| CAS NO.    | COMPOUND                    | CONCENTRATION (ug/L) | Q |
|------------|-----------------------------|----------------------|---|
| 74-87-3    | Chloromethane               | 1                    | U |
| 74-83-9    | Bromomethane                | 1                    | U |
| 75-01-4    | Vinyl chloride              | 1                    | U |
| 75-00-3    | Chloroethane                | 1                    | U |
| 75-09-2    | Methylene chloride          | 2                    | U |
| 67-64-1    | Acetone                     | 5                    | U |
| 75-15-0    | Carbon disulfide            | 1                    | U |
| 75-35-4    | 1,1-Dichloroethene          | 1                    | U |
| 75-34-3    | 1,1-Dichloroethane          | 1                    | U |
| 156-59-2   | cis-1,2-Dichloroethene      | 1                    | U |
| 156-60-5   | trans-1,2-Dichloroethene    | 1                    | U |
| 67-66-3    | Chloroform                  | 1                    | U |
| 107-06-2   | 1,2-Dichloroethane          | 1                    | U |
| 78-93-3    | 2-Butanone                  | 5                    | U |
| 74-97-5    | Bromochloromethane          | 1                    | U |
| 71-55-6    | 1,1,1-Trichloroethane       | 1                    | U |
| 56-23-5    | Carbon tetrachloride        | 1                    | U |
| 75-27-4    | Bromodichloromethane        | 1                    | U |
| 78-87-5    | 1,2-Dichloropropane         | 1                    | U |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1                    | U |
| 79-01-6    | Trichloroethene             | 1                    | U |
| 124-48-1   | Dibromochloromethane        | 1                    | U |
| 79-00-5    | 1,1,2-Trichloroethane       | 1                    | U |
| 71-43-2    | Benzene                     | 1                    | U |
| 10061-02-6 | trans-1,3-Dichloropropene   | 1                    | U |
| 75-25-2    | Bromoform                   | 1                    | U |
| 108-10-1   | 4-Methyl-2-pentanone        | 5                    | U |
| 591-78-6   | 2-Hexanone                  | 5                    | U |
| 127-18-4   | Tetrachloroethene           | 1                    | U |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 1                    | U |
| 106-93-4   | 1,2-Dibromoethane           | 1                    | U |
| 108-88-3   | Toluene                     | 1                    | U |
| 108-90-7   | Chlorobenzene               | 1                    | U |
| 100-41-4   | Ethylbenzene                | 1                    | U |
| 100-42-5   | Styrene                     | 1                    | U |
| 1330-20-7  | Xylenes (total)             | 1                    | U |
| 541-73-1   | 1,3-Dichlorobenzene         | 1                    | U |
| 106-46-7   | 1,4-Dichlorobenzene         | 1                    | U |
| 95-50-1    | 1,2-Dichlorobenzene         | 1                    | U |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | 1                    | U |
| 120-82-1   | 1,2,4-Trichlorobenzene      | 1                    | U |

1LCE  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EDPL4

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004

Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: EDPK9

Lab Sample ID: 6004.007      Date Received: 04/19/00

Lab File ID: F0899      Date Analyzed: 04/24/00

Purge Volume: 20      (mL)      Dilution Factor: 1.0

GC Column: DB-624      ID: 0.53 (mm) Length: 60      (m)

Number TICs found:      0

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC.<br>(ug/L) | Q |
|------------|---------------|----|----------------------|---|
| 1.         |               |    |                      |   |
| 2.         |               |    |                      |   |
| 3.         |               |    |                      |   |
| 4.         |               |    |                      |   |
| 5.         |               |    |                      |   |
| 6.         |               |    |                      |   |
| 7.         |               |    |                      |   |
| 8.         |               |    |                      |   |
| 9.         |               |    |                      |   |
| 10.        |               |    |                      |   |
| 11.        |               |    |                      |   |
| 12.        |               |    |                      |   |
| 13.        |               |    |                      |   |
| 14.        |               |    |                      |   |
| 15.        |               |    |                      |   |
| 16.        |               |    |                      |   |
| 17.        |               |    |                      |   |
| 18.        |               |    |                      |   |
| 19.        |               |    |                      |   |
| 20.        |               |    |                      |   |
| 21.        |               |    |                      |   |
| 22.        |               |    |                      |   |
| 23.        |               |    |                      |   |
| 24.        |               |    |                      |   |
| 25.        |               |    |                      |   |
| 26.        |               |    |                      |   |
| 27.        |               |    |                      |   |
| 28.        |               |    |                      |   |
| 29.        |               |    |                      |   |
| 30.        |               |    |                      |   |

**000064**

1LCA  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDPL5

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

Lab Code: PDP Case No.: 27986 SAS No.: \_\_\_\_\_ SDG No.: EDPK9

Lab Sample ID: 6004.008 Date Received: 04/19/00

Lab File ID: F0900 Date Analyzed: 04/24/00

Purge Volume: 20 (mL) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

| CAS NO.    | COMPOUND                    | CONCENTRATION (ug/L) | Q |
|------------|-----------------------------|----------------------|---|
| 74-87-3    | Chloromethane               | 1                    | U |
| 74-83-9    | Bromomethane                | 1                    | U |
| 75-01-4    | Vinyl chloride              | 1                    | U |
| 75-00-3    | Chloroethane                | 1                    | U |
| 75-09-2    | Methylene chloride          | 2                    | U |
| 67-64-1    | Acetone                     | 5                    | U |
| 75-15-0    | Carbon disulfide            | 1                    | U |
| 75-35-4    | 1,1-Dichloroethene          | 1                    | U |
| 75-34-3    | 1,1-Dichloroethane          | 1                    | U |
| 156-59-2   | cis-1,2-Dichloroethene      | 1                    | U |
| 156-60-5   | trans-1,2-Dichloroethene    | 1                    | U |
| 67-66-3    | Chloroform                  | 1                    | U |
| 107-06-2   | 1,2-Dichloroethane          | 1                    | U |
| 78-93-3    | 2-Butanone                  | 5                    | U |
| 74-97-5    | Bromochloromethane          | 1                    | U |
| 71-55-6    | 1,1,1-Trichloroethane       | 1                    | U |
| 56-23-5    | Carbon tetrachloride        | 1                    | U |
| 75-27-4    | Bromodichloromethane        | 1                    | U |
| 78-87-5    | 1,2-Dichloropropane         | 1                    | U |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1                    | U |
| 79-01-6    | Trichloroethene             | 1                    | U |
| 124-48-1   | Dibromochloromethane        | 1                    | U |
| 79-00-5    | 1,1,2-Trichloroethane       | 1                    | U |
| 71-43-2    | Benzene                     | 1                    | U |
| 10061-02-6 | trans-1,3-Dichloropropene   | 1                    | U |
| 75-25-2    | Bromoform                   | 1                    | U |
| 108-10-1   | 4-Methyl-2-pentanone        | 5                    | U |
| 591-78-6   | 2-Hexanone                  | 5                    | U |
| 127-18-4   | Tetrachloroethene           | 1                    | U |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 1                    | U |
| 106-93-4   | 1,2-Dibromoethane           | 1                    | U |
| 108-88-3   | Toluene                     | 1                    | U |
| 108-90-7   | Chlorobenzene               | 1                    | U |
| 100-41-4   | Ethylbenzene                | 1                    | U |
| 100-42-5   | Styrene                     | 1                    | U |
| 1330-20-7  | Xylenes (total)             | 1                    | U |
| 541-73-1   | 1,3-Dichlorobenzene         | 1                    | U |
| 106-46-7   | 1,4-Dichlorobenzene         | 1                    | U |
| 95-50-1    | 1,2-Dichlorobenzene         | 1                    | U |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | 1                    | U |
| 120-82-1   | 1,2,4-Trichlorobenzene      | 1                    | U |

1LCE  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EDPL5

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004

Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: EDPK9

Lab Sample ID: 6004.008      Date Received: 04/19/00

Lab File ID: F0900      Date Analyzed: 04/24/00

Purge Volume: 20 (mL)      Dilution Factor: 1.0

GC Column: DB-624      ID: 0.53 (mm) Length: 60 (m)

Number TICs found: 0

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC.<br>(ug/L) | Q |
|------------|---------------|----|----------------------|---|
| 1.         |               |    |                      |   |
| 2.         |               |    |                      |   |
| 3.         |               |    |                      |   |
| 4.         |               |    |                      |   |
| 5.         |               |    |                      |   |
| 6.         |               |    |                      |   |
| 7.         |               |    |                      |   |
| 8.         |               |    |                      |   |
| 9.         |               |    |                      |   |
| 10.        |               |    |                      |   |
| 11.        |               |    |                      |   |
| 12.        |               |    |                      |   |
| 13.        |               |    |                      |   |
| 14.        |               |    |                      |   |
| 15.        |               |    |                      |   |
| 16.        |               |    |                      |   |
| 17.        |               |    |                      |   |
| 18.        |               |    |                      |   |
| 19.        |               |    |                      |   |
| 20.        |               |    |                      |   |
| 21.        |               |    |                      |   |
| 22.        |               |    |                      |   |
| 23.        |               |    |                      |   |
| 24.        |               |    |                      |   |
| 25.        |               |    |                      |   |
| 26.        |               |    |                      |   |
| 27.        |               |    |                      |   |
| 28.        |               |    |                      |   |
| 29.        |               |    |                      |   |
| 30.        |               |    |                      |   |

000072

1LCA  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDPL6

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004  
 Lab Code: PDP Case No.: 27986 SAS No.: \_\_\_\_\_ SDG No.: EDPK9  
 Lab Sample ID: 6004.009 Date Received: 04/19/00  
 Lab File ID: F0901 Date Analyzed: 04/24/00  
 Purge Volume: 20 (mL) Dilution Factor: 1.0  
 GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

| CAS NO.    | COMPOUND                    | CONCENTRATION (ug/L) | Q |
|------------|-----------------------------|----------------------|---|
| 74-87-3    | Chloromethane               | 1                    | U |
| 74-83-9    | Bromomethane                | 1                    | U |
| 75-01-4    | Vinyl chloride              | 1                    | U |
| 75-00-3    | Chloroethane                | 1                    | U |
| 75-09-2    | Methylene chloride          | 2                    | U |
| 67-64-1    | Acetone                     | 5                    | U |
| 75-15-0    | Carbon disulfide            | 1                    | U |
| 75-35-4    | 1,1-Dichloroethane          | 1                    | U |
| 75-34-3    | 1,1-Dichloroethane          | 0.8                  | J |
| 156-59-2   | cis-1,2-Dichloroethene      | 0.7                  | J |
| 156-60-5   | trans-1,2-Dichloroethene    | 1                    | U |
| 67-66-3    | Chloroform                  | 1                    | U |
| 107-06-2   | 1,2-Dichloroethane          | 1                    | U |
| 78-93-3    | 2-Butanone                  | 5                    | U |
| 74-97-5    | Bromochloromethane          | 1                    | U |
| 71-55-6    | 1,1,1-Trichloroethane       | 1                    | U |
| 56-23-5    | Carbon tetrachloride        | 1                    | U |
| 75-27-4    | Bromodichloromethane        | 1                    | U |
| 78-87-5    | 1,2-Dichloropropane         | 1                    | U |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1                    | U |
| 79-01-6    | Trichloroethene             | 1                    | U |
| 124-48-1   | Dibromochloromethane        | 1                    | U |
| 79-00-5    | 1,1,2-Trichloroethane       | 1                    | U |
| 71-43-2    | Benzene                     | 1                    | U |
| 10061-02-6 | trans-1,3-Dichloropropene   | 1                    | U |
| 75-25-2    | Bromoform                   | 1                    | U |
| 108-10-1   | 4-Methyl-2-pentanone        | 5                    | U |
| 591-78-6   | 2-Hexanone                  | 5                    | U |
| 127-18-4   | Tetrachloroethene           | 1                    | U |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 1                    | U |
| 106-93-4   | 1,2-Dibromoethane           | 1                    | U |
| 108-88-3   | Toluene                     | 1                    | U |
| 108-90-7   | Chlorobenzene               | 1                    | U |
| 100-41-4   | Ethylbenzene                | 1                    | U |
| 100-42-5   | Styrene                     | 1                    | U |
| 1330-20-7  | Xylenes (total)             | 1                    | U |
| 541-73-1   | 1,3-Dichlorobenzene         | 1                    | U |
| 106-46-7   | 1,4-Dichlorobenzene         | 1                    | U |
| 95-50-1    | 1,2-Dichlorobenzene         | 1                    | U |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | 1                    | U |
| 120-82-1   | 1,2,4-Trichlorobenzene      | 1                    | U |

1LCE  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EDPL6

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004

Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: EDPK9

Lab Sample ID: 6004.009      Date Received: 04/19/00

Lab File ID: F0901      Date Analyzed: 04/24/00

Purge Volume: 20 (mL)      Dilution Factor: 1.0

GC Column: DB-624      ID: 0.53 (mm) Length: 60 (m)

Number TICs found: 1

| CAS NUMBER     | COMPOUND NAME            | RT   | EST. CONC.<br>(ug/L) | Q  |
|----------------|--------------------------|------|----------------------|----|
| 1. 000075-43-4 | Methane, dichlorofluoro- | 5.91 | 2                    | JN |
| 2.             |                          |      |                      |    |
| 3.             |                          |      |                      |    |
| 4.             |                          |      |                      |    |
| 5.             |                          |      |                      |    |
| 6.             |                          |      |                      |    |
| 7.             |                          |      |                      |    |
| 8.             |                          |      |                      |    |
| 9.             |                          |      |                      |    |
| 10.            |                          |      |                      |    |
| 11.            |                          |      |                      |    |
| 12.            |                          |      |                      |    |
| 13.            |                          |      |                      |    |
| 14.            |                          |      |                      |    |
| 15.            |                          |      |                      |    |
| 16.            |                          |      |                      |    |
| 17.            |                          |      |                      |    |
| 18.            |                          |      |                      |    |
| 19.            |                          |      |                      |    |
| 20.            |                          |      |                      |    |
| 21.            |                          |      |                      |    |
| 22.            |                          |      |                      |    |
| 23.            |                          |      |                      |    |
| 24.            |                          |      |                      |    |
| 25.            |                          |      |                      |    |
| 26.            |                          |      |                      |    |
| 27.            |                          |      |                      |    |
| 28.            |                          |      |                      |    |
| 29.            |                          |      |                      |    |
| 30.            |                          |      |                      |    |

000080

1LCA  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDPL7

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004

Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: EDPK9

Lab Sample ID: 6004.010      Date Received: 04/19/00

Lab File ID: F0880      Date Analyzed: 04/22/00

Purge Volume: 20 (mL)      Dilution Factor: 1.0

GC Column: DB-624      ID: 0.53 (mm) Length: 60 (m)

| CAS NO.    | COMPOUND                    | CONCENTRATION<br>(ug/L) | Q |
|------------|-----------------------------|-------------------------|---|
| 74-87-3    | Chloromethane               | 1                       | U |
| 74-83-9    | Bromomethane                | 1                       | U |
| 75-01-4    | Vinyl chloride              | 1                       | U |
| 75-00-3    | Chloroethane                | 1                       | U |
| 75-09-2    | Methylene chloride          | 2                       | U |
| 67-64-1    | Acetone                     | 5                       | U |
| 75-15-0    | Carbon disulfide            | 1                       | U |
| 75-35-4    | 1,1-Dichloroethene          | 1                       | U |
| 75-34-3    | 1,1-Dichloroethane          | 1                       | U |
| 156-59-2   | cis-1,2-Dichloroethene      | 1                       | U |
| 156-60-5   | trans-1,2-Dichloroethene    | 1                       | U |
| 67-66-3    | Chloroform                  | 1                       | U |
| 107-06-2   | 1,2-Dichloroethane          | 1                       | U |
| 78-93-3    | 2-Butanone                  | 5                       | U |
| 74-97-5    | Bromochloromethane          | 1                       | U |
| 71-55-6    | 1,1,1-Trichloroethane       | 1                       | U |
| 56-23-5    | Carbon tetrachloride        | 1                       | U |
| 75-27-4    | Bromodichloromethane        | 1                       | U |
| 78-87-5    | 1,2-Dichloropropane         | 1                       | U |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1                       | U |
| 79-01-6    | Trichloroethene             | 1                       | U |
| 124-48-1   | Dibromochloromethane        | 1                       | U |
| 79-00-5    | 1,1,2-Trichloroethane       | 1                       | U |
| 71-43-2    | Benzene                     | 1                       | U |
| 10061-02-6 | trans-1,3-Dichloropropene   | 1                       | U |
| 75-25-2    | Bromoform                   | 1                       | U |
| 108-10-1   | 4-Methyl-2-pentanone        | 5                       | U |
| 591-78-6   | 2-Hexanone                  | 5                       | U |
| 127-18-4   | Tetrachloroethene           | 1                       | U |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 1                       | U |
| 106-93-4   | 1,2-Dibromoethane           | 1                       | U |
| 108-88-3   | Toluene                     | 1                       | U |
| 108-90-7   | Chlorobenzene               | 1                       | U |
| 100-41-4   | Ethylbenzene                | 1                       | U |
| 100-42-5   | Styrene                     | 1                       | U |
| 1330-20-7  | Xylenes (total)             | 1                       | U |
| 541-73-1   | 1,3-Dichlorobenzene         | 1                       | U |
| 106-46-7   | 1,4-Dichlorobenzene         | 1                       | U |
| 95-50-1    | 1,2-Dichlorobenzene         | 1                       | U |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | 1                       | U |
| 120-82-1   | 1,2,4-Trichlorobenzene      | 1                       | U |

000090

1LCE  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EDPL7

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004

Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: EDPK9

Lab Sample ID: 6004.010      Date Received: 04/19/00

Lab File ID: F0880      Date Analyzed: 04/22/00

Purge Volume: 20 (mL)      Dilution Factor: 1.0

GC Column: DB-624      ID: 0.53 (mm) Length: 60 (m)

Number TICs found: 0

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC.<br>(ug/L) | Q |
|------------|---------------|----|----------------------|---|
| 1.         |               |    |                      |   |
| 2.         |               |    |                      |   |
| 3.         |               |    |                      |   |
| 4.         |               |    |                      |   |
| 5.         |               |    |                      |   |
| 6.         |               |    |                      |   |
| 7.         |               |    |                      |   |
| 8.         |               |    |                      |   |
| 9.         |               |    |                      |   |
| 10.        |               |    |                      |   |
| 11.        |               |    |                      |   |
| 12.        |               |    |                      |   |
| 13.        |               |    |                      |   |
| 14.        |               |    |                      |   |
| 15.        |               |    |                      |   |
| 16.        |               |    |                      |   |
| 17.        |               |    |                      |   |
| 18.        |               |    |                      |   |
| 19.        |               |    |                      |   |
| 20.        |               |    |                      |   |
| 21.        |               |    |                      |   |
| 22.        |               |    |                      |   |
| 23.        |               |    |                      |   |
| 24.        |               |    |                      |   |
| 25.        |               |    |                      |   |
| 26.        |               |    |                      |   |
| 27.        |               |    |                      |   |
| 28.        |               |    |                      |   |
| 29.        |               |    |                      |   |
| 30.        |               |    |                      |   |

**000091**

1LCA  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDPL8

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

Lab Code: PDP Case No.: 27986 SAS No.: \_\_\_\_\_ SDG No.: EDPK9

Lab Sample ID: 6004.011 Date Received: 04/19/00

Lab File ID: F0881 Date Analyzed: 04/22/00

Purge Volume: 20 (mL) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

| CAS NO.    | COMPOUND                    | CONCENTRATION (ug/L) | Q |
|------------|-----------------------------|----------------------|---|
| 74-87-3    | Chloromethane               | 1                    | U |
| 74-83-9    | Bromomethane                | 1                    | U |
| 75-01-4    | Vinyl chloride              | 1                    | U |
| 75-00-3    | Chloroethane                | 1                    | U |
| 75-09-2    | Methylene chloride          | 2                    | U |
| 67-64-1    | Acetone                     | 5                    | U |
| 75-15-0    | Carbon disulfide            | 1                    | U |
| 75-35-4    | 1,1-Dichloroethene          | 1                    | U |
| 75-34-3    | 1,1-Dichloroethane          | 3                    |   |
| 156-59-2   | cis-1,2-Dichloroethene      | 2                    |   |
| 156-60-5   | trans-1,2-Dichloroethene    | 1                    | U |
| 67-66-3    | Chloroform                  | 1                    | U |
| 107-06-2   | 1,2-Dichloroethane          | 1                    | U |
| 78-93-3    | 2-Butanone                  | 5                    | U |
| 74-97-5    | Bromochloromethane          | 1                    | U |
| 71-55-6    | 1,1,1-Trichloroethane       | 1                    | U |
| 56-23-5    | Carbon tetrachloride        | 1                    | U |
| 75-27-4    | Bromodichloromethane        | 1                    | U |
| 78-87-5    | 1,2-Dichloropropane         | 8                    |   |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1                    | U |
| 79-01-6    | Trichloroethene             | 1                    | U |
| 124-48-1   | Dibromochloromethane        | 1                    | U |
| 79-00-5    | 1,1,2-Trichloroethane       | 1                    | U |
| 71-43-2    | Benzene                     | 1                    | U |
| 10061-02-6 | trans-1,3-Dichloropropene   | 1                    | U |
| 75-25-2    | Bromoform                   | 1                    | U |
| 108-10-1   | 4-Methyl-2-pentanone        | 5                    | U |
| 591-78-6   | 2-Hexanone                  | 5                    | U |
| 127-18-4   | Tetrachloroethene           | 1                    | U |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 1                    | U |
| 106-93-4   | 1,2-Dibromoethane           | 1                    | U |
| 108-88-3   | Toluene                     | 1                    | U |
| 108-90-7   | Chlorobenzene               | 1                    | U |
| 100-41-4   | Ethylbenzene                | 1                    | U |
| 100-42-5   | Styrene                     | 1                    | U |
| 1330-20-7  | Xylenes (total)             | 1                    | U |
| 541-73-1   | 1,3-Dichlorobenzene         | 1                    | U |
| 106-46-7   | 1,4-Dichlorobenzene         | 1                    | U |
| 95-50-1    | 1,2-Dichlorobenzene         | 1                    | U |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | 1                    | U |
| 120-82-1   | 1,2,4-Trichlorobenzene      | 1                    | U |

000095

1LCE  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EDPL8

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004

Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: EDPK9

Lab Sample ID: 6004.011      Date Received: 04/19/00

Lab File ID: F0881      Date Analyzed: 04/22/00

Purge Volume: 20 (mL)      Dilution Factor: 1.0

GC Column: DB-624      ID: 0.53 (mm) Length: 60 (m)

Number TICs found: 1

| CAS NUMBER     | COMPOUND NAME | RT   | EST. CONC.<br>(ug/L) | Q  |
|----------------|---------------|------|----------------------|----|
| 1. 000060-29-7 | Ethyl ether   | 6.82 | 2                    | JN |
| 2.             |               |      |                      |    |
| 3.             |               |      |                      |    |
| 4.             |               |      |                      |    |
| 5.             |               |      |                      |    |
| 6.             |               |      |                      |    |
| 7.             |               |      |                      |    |
| 8.             |               |      |                      |    |
| 9.             |               |      |                      |    |
| 10.            |               |      |                      |    |
| 11.            |               |      |                      |    |
| 12.            |               |      |                      |    |
| 13.            |               |      |                      |    |
| 14.            |               |      |                      |    |
| 15.            |               |      |                      |    |
| 16.            |               |      |                      |    |
| 17.            |               |      |                      |    |
| 18.            |               |      |                      |    |
| 19.            |               |      |                      |    |
| 20.            |               |      |                      |    |
| 21.            |               |      |                      |    |
| 22.            |               |      |                      |    |
| 23.            |               |      |                      |    |
| 24.            |               |      |                      |    |
| 25.            |               |      |                      |    |
| 26.            |               |      |                      |    |
| 27.            |               |      |                      |    |
| 28.            |               |      |                      |    |
| 29.            |               |      |                      |    |
| 30.            |               |      |                      |    |

000099

1LCA  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDPL9

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004  
 Lab Code: PDP Case No.: 27986 SAS No.: \_\_\_\_\_ SDG No.: EDPK9  
 Lab Sample ID: 6004.012 Date Received: 04/19/00  
 Lab File ID: F0882 Date Analyzed: 04/22/00  
 Purge Volume: 20 (mL) Dilution Factor: 1.0  
 GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

| CAS NO.    | COMPOUND                    | CONCENTRATION (ug/L) | Q |
|------------|-----------------------------|----------------------|---|
| 74-87-3    | Chloromethane               | 1                    | U |
| 74-83-9    | Bromomethane                | 1                    | U |
| 75-01-4    | Vinyl chloride              | 1                    | U |
| 75-00-3    | Chloroethane                | 1                    | U |
| 75-09-2    | Methylene chloride          | 2                    | U |
| 67-64-1    | Acetone                     | 5                    | U |
| 75-15-0    | Carbon disulfide            | 1                    | U |
| 75-35-4    | 1,1-Dichloroethene          | 1                    | U |
| 75-34-3    | 1,1-Dichloroethane          | 1                    | U |
| 156-59-2   | cis-1,2-Dichloroethene      | 1                    | U |
| 156-60-5   | trans-1,2-Dichloroethene    | 1                    | U |
| 67-66-3    | Chloroform                  | 1                    | U |
| 107-06-2   | 1,2-Dichloroethane          | 1                    | U |
| 78-93-3    | 2-Butanone                  | 5                    | U |
| 74-97-5    | Bromochloromethane          | 1                    | U |
| 71-55-6    | 1,1,1-Trichloroethane       | 1                    | U |
| 56-23-5    | Carbon tetrachloride        | 1                    | U |
| 75-27-4    | Bromodichloromethane        | 1                    | U |
| 78-87-5    | 1,2-Dichloropropane         | 1                    | U |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1                    | U |
| 79-01-6    | Trichloroethene             | 1                    | U |
| 124-48-1   | Dibromochloromethane        | 1                    | U |
| 79-00-5    | 1,1,2-Trichloroethane       | 1                    | U |
| 71-43-2    | Benzene                     | 1                    | U |
| 10061-02-6 | trans-1,3-Dichloropropene   | 1                    | U |
| 75-25-2    | Bromoform                   | 1                    | U |
| 108-10-1   | 4-Methyl-2-pentanone        | 5                    | U |
| 591-78-6   | 2-Hexanone                  | 5                    | U |
| 127-18-4   | Tetrachloroethene           | 1                    | U |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 1                    | U |
| 106-93-4   | 1,2-Dibromoethane           | 1                    | U |
| 108-88-3   | Toluene                     | 1                    | U |
| 108-90-7   | Chlorobenzene               | 1                    | U |
| 100-41-4   | Ethylbenzene                | 1                    | U |
| 100-42-5   | Styrene                     | 1                    | U |
| 1330-20-7  | Xylenes (total)             | 1                    | U |
| 541-73-1   | 1,3-Dichlorobenzene         | 1                    | U |
| 106-46-7   | 1,4-Dichlorobenzene         | 1                    | U |
| 95-50-1    | 1,2-Dichlorobenzene         | 1                    | U |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | 1                    | U |
| 120-82-1   | 1,2,4-Trichlorobenzene      | 1                    | U |

1LCA  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDPM0

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

Lab Code: PDP Case No.: 27986 SAS No.: \_\_\_\_\_ SDG No.: EDPK9

Lab Sample ID: 6004.013 Date Received: 04/19/00

Lab File ID: F0883 Date Analyzed: 04/22/00

Purge Volume: 20 (mL) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

| CAS NO.    | COMPOUND                    | CONCENTRATION (ug/L) | Q |
|------------|-----------------------------|----------------------|---|
| 74-87-3    | Chloromethane               | 1                    | U |
| 74-83-9    | Bromomethane                | 1                    | U |
| 75-01-4    | Vinyl chloride              | 1                    | U |
| 75-00-3    | Chloroethane                | 1                    | U |
| 75-09-2    | Methylene chloride          | 2                    | U |
| 67-64-1    | Acetone                     | 5                    | U |
| 75-15-0    | Carbon disulfide            | 1                    | U |
| 75-35-4    | 1,1-Dichloroethene          | 1                    | U |
| 75-34-3    | 1,1-Dichloroethane          | 4                    |   |
| 156-59-2   | cis-1,2-Dichloroethene      | 2                    |   |
| 156-60-5   | trans-1,2-Dichloroethene    | 1                    | U |
| 67-66-3    | Chloroform                  | 1                    | U |
| 107-06-2   | 1,2-Dichloroethane          | 1                    | U |
| 78-93-3    | 2-Butanone                  | 5                    | U |
| 74-97-5    | Bromochloromethane          | 1                    | U |
| 71-55-6    | 1,1,1-Trichloroethane       | 1                    | U |
| 56-23-5    | Carbon tetrachloride        | 1                    | U |
| 75-27-4    | Bromodichloromethane        | 1                    | U |
| 78-87-5    | 1,2-Dichloropropane         | 9                    |   |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1                    | U |
| 79-01-6    | Trichloroethene             | 1                    | U |
| 124-48-1   | Dibromochloromethane        | 1                    | U |
| 79-00-5    | 1,1,2-Trichloroethane       | 1                    | U |
| 71-43-2    | Benzene                     | 1                    | U |
| 10061-02-6 | trans-1,3-Dichloropropene   | 1                    | U |
| 75-25-2    | Bromoform                   | 1                    | U |
| 108-10-1   | 4-Methyl-2-pentanone        | 5                    | U |
| 591-78-6   | 2-Hexanone                  | 5                    | U |
| 127-18-4   | Tetrachloroethene           | 1                    | U |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 1                    | U |
| 106-93-4   | 1,2-Dibromoethane           | 1                    | U |
| 108-88-3   | Toluene                     | 1                    | U |
| 108-90-7   | Chlorobenzene               | 1                    | U |
| 100-41-4   | Ethylbenzene                | 1                    | U |
| 100-42-5   | Styrene                     | 1                    | U |
| 1330-20-7  | Xylenes (total)             | 1                    | U |
| 541-73-1   | 1,3-Dichlorobenzene         | 1                    | U |
| 106-46-7   | 1,4-Dichlorobenzene         | 1                    | U |
| 95-50-1    | 1,2-Dichlorobenzene         | 1                    | U |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | 1                    | U |
| 120-82-1   | 1,2,4-Trichlorobenzene      | 1                    | U |

1LCE  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EDPM0

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004

Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: EDPK9

Lab Sample ID: 6004.013      Date Received: 04/19/00

Lab File ID: F0883      Date Analyzed: 04/22/00

Purge Volume: 20 (mL)      Dilution Factor: 1.0

GC Column: DB-624      ID: 0.53 (mm) Length: 60 (m)

Number TICs found: 2

| CAS NUMBER     | COMPOUND NAME            | RT   | EST. CONC.<br>(ug/L) | Q  |
|----------------|--------------------------|------|----------------------|----|
| 1. 000075-43-4 | Methane, dichlorofluoro- | 5.91 | 4                    | JN |
| 2. 000060-29-7 | Ethyl ether              | 6.82 | 5                    | JN |
| 3.             |                          |      |                      |    |
| 4.             |                          |      |                      |    |
| 5.             |                          |      |                      |    |
| 6.             |                          |      |                      |    |
| 7.             |                          |      |                      |    |
| 8.             |                          |      |                      |    |
| 9.             |                          |      |                      |    |
| 10.            |                          |      |                      |    |
| 11.            |                          |      |                      |    |
| 12.            |                          |      |                      |    |
| 13.            |                          |      |                      |    |
| 14.            |                          |      |                      |    |
| 15.            |                          |      |                      |    |
| 16.            |                          |      |                      |    |
| 17.            |                          |      |                      |    |
| 18.            |                          |      |                      |    |
| 19.            |                          |      |                      |    |
| 20.            |                          |      |                      |    |
| 21.            |                          |      |                      |    |
| 22.            |                          |      |                      |    |
| 23.            |                          |      |                      |    |
| 24.            |                          |      |                      |    |
| 25.            |                          |      |                      |    |
| 26.            |                          |      |                      |    |
| 27.            |                          |      |                      |    |
| 28.            |                          |      |                      |    |
| 29.            |                          |      |                      |    |
| 30.            |                          |      |                      |    |

000119

1LCA  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDPM1

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

Lab Code: PDP Case No.: 27986 SAS No.: \_\_\_\_\_ SDG No.: EDPK9

Lab Sample ID: 6008.001 Date Received: 04/20/00

Lab File ID: F0885 Date Analyzed: 04/22/00

Purge Volume: 20 (mL) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

| CAS NO.    | COMPOUND                    | CONCENTRATION (ug/L) | Q |
|------------|-----------------------------|----------------------|---|
| 74-87-3    | Chloromethane               | 1                    | U |
| 74-83-9    | Bromomethane                | 1                    | U |
| 75-01-4    | Vinyl chloride              | 1                    | U |
| 75-00-3    | Chloroethane                | 1                    | U |
| 75-09-2    | Methylene chloride          | 2                    | U |
| 67-64-1    | Acetone                     | 5                    | U |
| 75-15-0    | Carbon disulfide            | 1                    | U |
| 75-35-4    | 1,1-Dichloroethene          | 1                    | U |
| 75-34-3    | 1,1-Dichloroethane          | 3                    |   |
| 156-59-2   | cis-1,2-Dichloroethene      | 1                    |   |
| 156-60-5   | trans-1,2-Dichloroethene    | 1                    | U |
| 67-66-3    | Chloroform                  | 1                    | U |
| 107-06-2   | 1,2-Dichloroethane          | 1                    | U |
| 78-93-3    | 2-Butanone                  | 5                    | U |
| 74-97-5    | Bromochloromethane          | 1                    | U |
| 71-55-6    | 1,1,1-Trichloroethane       | 1                    | U |
| 56-23-5    | Carbon tetrachloride        | 1                    | U |
| 75-27-4    | Bromodichloromethane        | 1                    | U |
| 78-87-5    | 1,2-Dichloropropane         | 1                    | U |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1                    | U |
| 79-01-6    | Trichloroethene             | 1                    | U |
| 124-48-1   | Dibromochloromethane        | 1                    | U |
| 79-00-5    | 1,1,2-Trichloroethane       | 1                    | U |
| 71-43-2    | Benzene                     | 1                    | U |
| 10061-02-6 | trans-1,3-Dichloropropene   | 1                    | U |
| 75-25-2    | Bromoform                   | 1                    | U |
| 108-10-1   | 4-Methyl-2-pentanone        | 5                    | U |
| 591-78-6   | 2-Hexanone                  | 5                    | U |
| 127-18-4   | Tetrachloroethene           | 1                    | U |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 1                    | U |
| 106-93-4   | 1,2-Dibromoethane           | 1                    | U |
| 108-88-3   | Toluene                     | 1                    | U |
| 108-90-7   | Chlorobenzene               | 1                    | U |
| 100-41-4   | Ethylbenzene                | 1                    | U |
| 100-42-5   | Styrene                     | 1                    | U |
| 1330-20-7  | Xylenes (total)             | 1                    | U |
| 541-73-1   | 1,3-Dichlorobenzene         | 1                    | U |
| 106-46-7   | 1,4-Dichlorobenzene         | 1                    | U |
| 95-50-1    | 1,2-Dichlorobenzene         | 1                    | U |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | 1                    | U |
| 120-82-1   | 1,2,4-Trichlorobenzene      | 1                    | U |

1LCE  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EDPM1

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004

Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: EDPK9

Lab Sample ID: 6008.001      Date Received: 04/20/00

Lab File ID: F0885      Date Analyzed: 04/22/00

Purge Volume: 20 (mL)      Dilution Factor: 1.0

GC Column: DB-624      ID: 0.53 (mm) Length: 60 (m)

Number TICs found: 2

| CAS NUMBER     | COMPOUND NAME            | RT   | EST. CONC.<br>(ug/L) | Q  |
|----------------|--------------------------|------|----------------------|----|
| 1. 000075-43-4 | Methane, dichlorofluoro- | 5.91 | 9                    | JN |
| 2. 000060-29-7 | Ethyl ether              | 6.82 | 6                    | JN |
| 3.             |                          |      |                      |    |
| 4.             |                          |      |                      |    |
| 5.             |                          |      |                      |    |
| 6.             |                          |      |                      |    |
| 7.             |                          |      |                      |    |
| 8.             |                          |      |                      |    |
| 9.             |                          |      |                      |    |
| 10.            |                          |      |                      |    |
| 11.            |                          |      |                      |    |
| 12.            |                          |      |                      |    |
| 13.            |                          |      |                      |    |
| 14.            |                          |      |                      |    |
| 15.            |                          |      |                      |    |
| 16.            |                          |      |                      |    |
| 17.            |                          |      |                      |    |
| 18.            |                          |      |                      |    |
| 19.            |                          |      |                      |    |
| 20.            |                          |      |                      |    |
| 21.            |                          |      |                      |    |
| 22.            |                          |      |                      |    |
| 23.            |                          |      |                      |    |
| 24.            |                          |      |                      |    |
| 25.            |                          |      |                      |    |
| 26.            |                          |      |                      |    |
| 27.            |                          |      |                      |    |
| 28.            |                          |      |                      |    |
| 29.            |                          |      |                      |    |
| 30.            |                          |      |                      |    |

000132

1LCA  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDPM2

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: EDPK9

Lab Sample ID: 6008.002

Date Received: 04/20/00

Lab File ID: F0887

Date Analyzed: 04/22/00

Purge Volume: 20 (mL)

Dilution Factor: 1.0

GC Column: DB-624

ID: 0.53 (mm) Length: 60 (m)

| CAS NO.    | COMPOUND                    | CONCENTRATION (ug/L) | Q |
|------------|-----------------------------|----------------------|---|
| 74-87-3    | Chloromethane               | 1                    | U |
| 74-83-9    | Bromomethane                | 1                    | U |
| 75-01-4    | Vinyl chloride              | 1                    | U |
| 75-00-3    | Chloroethane                | 1                    | U |
| 75-09-2    | Methylene chloride          | 2                    | U |
| 67-64-1    | Acetone                     | 5                    | U |
| 75-15-0    | Carbon disulfide            | 1                    | U |
| 75-35-4    | 1,1-Dichloroethene          | 1                    | U |
| 75-34-3    | 1,1-Dichloroethane          | 2                    |   |
| 156-59-2   | cis-1,2-Dichloroethene      | 1                    |   |
| 156-60-5   | trans-1,2-Dichloroethene    | 1                    | U |
| 67-66-3    | Chloroform                  | 1                    | U |
| 107-06-2   | 1,2-Dichloroethane          | 1                    | U |
| 78-93-3    | 2-Butanone                  | 5                    | U |
| 74-97-5    | Bromochloromethane          | 1                    | U |
| 71-55-6    | 1,1,1-Trichloroethane       | 1                    | U |
| 56-23-5    | Carbon tetrachloride        | 1                    | U |
| 75-27-4    | Bromodichloromethane        | 1                    | U |
| 78-87-5    | 1,2-Dichloropropane         | 1                    | U |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1                    | U |
| 79-01-6    | Trichloroethene             | 1                    | U |
| 124-48-1   | Dibromochloromethane        | 1                    | U |
| 79-00-5    | 1,1,2-Trichloroethane       | 1                    | U |
| 71-43-2    | Benzene                     | 1                    | U |
| 10061-02-6 | trans-1,3-Dichloropropene   | 1                    | U |
| 75-25-2    | Bromoform                   | 1                    | U |
| 108-10-1   | 4-Methyl-2-pentanone        | 5                    | U |
| 591-78-6   | 2-Hexanone                  | 5                    | U |
| 127-18-4   | Tetrachloroethene           | 1                    | U |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 1                    | U |
| 106-93-4   | 1,2-Dibromoethane           | 1                    | U |
| 108-88-3   | Toluene                     | 1                    | U |
| 108-90-7   | Chlorobenzene               | 1                    | U |
| 100-41-4   | Ethylbenzene                | 1                    | U |
| 100-42-5   | Styrene                     | 1                    | U |
| 1330-20-7  | Xylenes (total)             | 1                    | U |
| 541-73-1   | 1,3-Dichlorobenzene         | 1                    | U |
| 106-46-7   | 1,4-Dichlorobenzene         | 1                    | U |
| 95-50-1    | 1,2-Dichlorobenzene         | 1                    | U |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | 1                    | U |
| 120-82-1   | 1,2,4-Trichlorobenzene      | 1                    | U |

000143

1LCE  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EDPM2

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004

Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: EDPK9

Lab Sample ID: 6008.002      Date Received: 04/20/00

Lab File ID: F0887      Date Analyzed: 04/22/00

Purge Volume: 20 (mL)      Dilution Factor: 1.0

GC Column: DB-624      ID: 0.53 (mm) Length: 60 (m)

Number TICs found: 3

| CAS NUMBER     | COMPOUND NAME            | RT   | EST. CONC.<br>(ug/L) | Q  |
|----------------|--------------------------|------|----------------------|----|
| 1. 000075-43-4 | Methane, dichlorofluoro- | 5.91 | 2                    | JN |
| 2. 000075-43-4 | Methane, dichlorofluoro- | 5.92 | 7                    | JN |
| 3. 000060-29-7 | Ethyl ether              | 6.82 | 4                    | JN |
| 4.             |                          |      |                      |    |
| 5.             |                          |      |                      |    |
| 6.             |                          |      |                      |    |
| 7.             |                          |      |                      |    |
| 8.             |                          |      |                      |    |
| 9.             |                          |      |                      |    |
| 10.            |                          |      |                      |    |
| 11.            |                          |      |                      |    |
| 12.            |                          |      |                      |    |
| 13.            |                          |      |                      |    |
| 14.            |                          |      |                      |    |
| 15.            |                          |      |                      |    |
| 16.            |                          |      |                      |    |
| 17.            |                          |      |                      |    |
| 18.            |                          |      |                      |    |
| 19.            |                          |      |                      |    |
| 20.            |                          |      |                      |    |
| 21.            |                          |      |                      |    |
| 22.            |                          |      |                      |    |
| 23.            |                          |      |                      |    |
| 24.            |                          |      |                      |    |
| 25.            |                          |      |                      |    |
| 26.            |                          |      |                      |    |
| 27.            |                          |      |                      |    |
| 28.            |                          |      |                      |    |
| 29.            |                          |      |                      |    |
| 30.            |                          |      |                      |    |

000144

1LCA  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDPM4

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004  
 Lab Code: PDP Case No.: 27986 SAS No.: \_\_\_\_\_ SDG No.: EDPK9  
 Lab Sample ID: 6004.014 Date Received: 04/19/00  
 Lab File ID: F0884 Date Analyzed: 04/22/00  
 Purge Volume: 20 (mL) Dilution Factor: 1.0  
 GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

| CAS NO.    | COMPOUND                    | CONCENTRATION (ug/L) | Q |
|------------|-----------------------------|----------------------|---|
| 74-87-3    | Chloromethane               | 1                    | U |
| 74-83-9    | Bromomethane                | 1                    | U |
| 75-01-4    | Vinyl chloride              | 1                    | U |
| 75-00-3    | Chloroethane                | 1                    | U |
| 75-09-2    | Methylene chloride          | 0.5                  | J |
| 67-64-1    | Acetone                     | 5                    | U |
| 75-15-0    | Carbon disulfide            | 1                    | U |
| 75-35-4    | 1,1-Dichloroethene          | 1                    | U |
| 75-34-3    | 1,1-Dichloroethane          | 1                    | U |
| 156-59-2   | cis-1,2-Dichloroethene      | 1                    | U |
| 156-60-5   | trans-1,2-Dichloroethene    | 1                    | U |
| 67-66-3    | Chloroform                  | 1                    | U |
| 107-06-2   | 1,2-Dichloroethane          | 1                    | U |
| 78-93-3    | 2-Butanone                  | 5                    | U |
| 74-97-5    | Bromochloromethane          | 1                    | U |
| 71-55-6    | 1,1,1-Trichloroethane       | 1                    | U |
| 56-23-5    | Carbon tetrachloride        | 1                    | U |
| 75-27-4    | Bromodichloromethane        | 1                    | U |
| 78-87-5    | 1,2-Dichloropropane         | 1                    | U |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1                    | U |
| 79-01-6    | Trichloroethene             | 1                    | U |
| 124-48-1   | Dibromochloromethane        | 1                    | U |
| 79-00-5    | 1,1,2-Trichloroethane       | 1                    | U |
| 71-43-2    | Benzene                     | 1                    | U |
| 10061-02-6 | trans-1,3-Dichloropropene   | 1                    | U |
| 75-25-2    | Bromoform                   | 1                    | U |
| 108-10-1   | 4-Methyl-2-pentanone        | 5                    | U |
| 591-78-6   | 2-Hexanone                  | 5                    | U |
| 127-18-4   | Tetrachloroethene           | 1                    | U |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 1                    | U |
| 106-93-4   | 1,2-Dibromoethane           | 1                    | U |
| 108-88-3   | Toluene                     | 1                    | U |
| 108-90-7   | Chlorobenzene               | 1                    | U |
| 100-41-4   | Ethylbenzene                | 1                    | U |
| 100-42-5   | Styrene                     | 1                    | U |
| 1330-20-7  | Xylenes (total)             | 1                    | U |
| 541-73-1   | 1,3-Dichlorobenzene         | 1                    | U |
| 106-46-7   | 1,4-Dichlorobenzene         | 1                    | U |
| 95-50-1    | 1,2-Dichlorobenzene         | 1                    | U |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | 1                    | U |
| 120-82-1   | 1,2,4-Trichlorobenzene      | 1                    | U |

000156

1LCE  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

|       |
|-------|
| EDPM4 |
|-------|

b Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004

Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: EDPK9

Lab Sample ID: 6004.014      Date Received: 04/19/00

Lab File ID: F0884      Date Analyzed: 04/22/00

Purge Volume: 20 (mL)      Dilution Factor: 1.0

GC Column: DB-624      ID: 0.53 (mm) Length: 60 (m)

Number TICs found: 0

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC.<br>(ug/L) | Q |
|------------|---------------|----|----------------------|---|
| 1.         |               |    |                      |   |
| 2.         |               |    |                      |   |
| 3.         |               |    |                      |   |
| 4.         |               |    |                      |   |
| 5.         |               |    |                      |   |
| 6.         |               |    |                      |   |
| 7.         |               |    |                      |   |
| 8.         |               |    |                      |   |
| 9.         |               |    |                      |   |
| 10.        |               |    |                      |   |
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| 12.        |               |    |                      |   |
| 13.        |               |    |                      |   |
| 14.        |               |    |                      |   |
| 15.        |               |    |                      |   |
| 16.        |               |    |                      |   |
| 17.        |               |    |                      |   |
| 18.        |               |    |                      |   |
| 19.        |               |    |                      |   |
| 20.        |               |    |                      |   |
| 21.        |               |    |                      |   |
| 22.        |               |    |                      |   |
| 23.        |               |    |                      |   |
| 24.        |               |    |                      |   |
| 25.        |               |    |                      |   |
| 26.        |               |    |                      |   |
| 27.        |               |    |                      |   |
| 28.        |               |    |                      |   |
| 29.        |               |    |                      |   |
| 30.        |               |    |                      |   |

1LCA  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDPMS

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: EDPK9

Lab Sample ID: 6008.003

Date Received: 04/20/00

Lab File ID: F0888

Date Analyzed: 04/22/00

Purge Volume: 20 (mL)

Dilution Factor: 1.0

GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

| CAS NO.    | COMPOUND                    | CONCENTRATION (ug/L) | Q |
|------------|-----------------------------|----------------------|---|
| 74-87-3    | Chloromethane               | 1                    | U |
| 74-83-9    | Bromomethane                | 1                    | U |
| 75-01-4    | Vinyl chloride              | 1                    | U |
| 75-00-3    | Chloroethane                | 1                    | U |
| 75-09-2    | Methylene chloride          | 0.9                  | J |
| 67-64-1    | Acetone                     | 5                    | U |
| 75-15-0    | Carbon disulfide            | 1                    | U |
| 75-35-4    | 1,1-Dichloroethene          | 1                    | U |
| 75-34-3    | 1,1-Dichloroethane          | 1                    | U |
| 156-59-2   | cis-1,2-Dichloroethene      | 1                    | U |
| 156-60-5   | trans-1,2-Dichloroethene    | 1                    | U |
| 67-66-3    | Chloroform                  | 1                    | U |
| 107-06-2   | 1,2-Dichloroethane          | 1                    | U |
| 78-93-3    | 2-Butanone                  | 5                    | U |
| 74-97-5    | Bromochloromethane          | 1                    | U |
| 71-55-6    | 1,1,1-Trichloroethane       | 1                    | U |
| 56-23-5    | Carbon tetrachloride        | 1                    | U |
| 75-27-4    | Bromodichloromethane        | 1                    | U |
| 78-87-5    | 1,2-Dichloropropane         | 1                    | U |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1                    | U |
| 79-01-6    | Trichloroethene             | 1                    | U |
| 124-48-1   | Dibromochloromethane        | 1                    | U |
| 79-00-5    | 1,1,2-Trichloroethane       | 1                    | U |
| 71-43-2    | Benzene                     | 1                    | U |
| 10061-02-6 | trans-1,3-Dichloropropene   | 1                    | U |
| 75-25-2    | Bromoform                   | 1                    | U |
| 108-10-1   | 4-Methyl-2-pentanone        | 5                    | U |
| 591-78-6   | 2-Hexanone                  | 5                    | U |
| 127-18-4   | Tetrachloroethene           | 1                    | U |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 1                    | U |
| 106-93-4   | 1,2-Dibromoethane           | 1                    | U |
| 108-88-3   | Toluene                     | 1                    | U |
| 108-90-7   | Chlorobenzene               | 1                    | U |
| 100-41-4   | Ethylbenzene                | 1                    | U |
| 100-42-5   | Styrene                     | 1                    | U |
| 1330-20-7  | Xylenes (total)             | 1                    | U |
| 541-73-1   | 1,3-Dichlorobenzene         | 1                    | U |
| 106-46-7   | 1,4-Dichlorobenzene         | 1                    | U |
| 95-50-1    | 1,2-Dichlorobenzene         | 1                    | U |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | 1                    | U |
| 120-82-1   | 1,2,4-Trichlorobenzene      | 1                    | U |

000165

1LCE  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EDPM5

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004

Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: EDPK9

Lab Sample ID: 6008.003      Date Received: 04/20/00

Lab File ID: F0888      Date Analyzed: 04/22/00

Purge Volume: 20 (mL)      Dilution Factor: 1.0

GC Column: DB-624      ID: 0.53 (mm) Length: 60 (m)

Number TICs found: 0

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC.<br>(ug/L) | Q |
|------------|---------------|----|----------------------|---|
| 1.         |               |    |                      |   |
| 2.         |               |    |                      |   |
| 3.         |               |    |                      |   |
| 4.         |               |    |                      |   |
| 5.         |               |    |                      |   |
| 6.         |               |    |                      |   |
| 7.         |               |    |                      |   |
| 8.         |               |    |                      |   |
| 9.         |               |    |                      |   |
| 10.        |               |    |                      |   |
| 11.        |               |    |                      |   |
| 12.        |               |    |                      |   |
| 13.        |               |    |                      |   |
| 14.        |               |    |                      |   |
| 15.        |               |    |                      |   |
| 16.        |               |    |                      |   |
| 17.        |               |    |                      |   |
| 18.        |               |    |                      |   |
| 19.        |               |    |                      |   |
| 20.        |               |    |                      |   |
| 21.        |               |    |                      |   |
| 22.        |               |    |                      |   |
| 23.        |               |    |                      |   |
| 24.        |               |    |                      |   |
| 25.        |               |    |                      |   |
| 26.        |               |    |                      |   |
| 27.        |               |    |                      |   |
| 28.        |               |    |                      |   |
| 29.        |               |    |                      |   |
| 30.        |               |    |                      |   |

1LCA  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VLCSS5

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

Lab Code: PDP Case No.: 27986 SAS No.: \_\_\_\_\_ SDG No.: EDPK9

Lab Sample ID: FVLCS054 Date Received: \_\_\_\_\_

Lab File ID: F0893 Date Analyzed: 04/24/00

Purge Volume: 20 (mL) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

| CAS NO.    | COMPOUND                         | CONCENTRATION<br>(ug/L) | Q |
|------------|----------------------------------|-------------------------|---|
| 74-87-3    | -----Chloromethane               | 1                       | U |
| 74-83-9    | -----Bromomethane                | 1                       | U |
| 75-01-4    | -----Vinyl chloride              | 5                       |   |
| 75-00-3    | -----Chloroethane                | 1                       | U |
| 75-09-2    | -----Methylené chloride          | 2                       | U |
| 67-64-1    | -----Acetone                     | 5                       | U |
| 75-15-0    | -----Carbon disulfide            | 1                       | U |
| 75-35-4    | -----1,1-Dichloroethene          | 1                       | U |
| 75-34-3    | -----1,1-Dichloroethane          | 1                       | U |
| 156-59-2   | -----cis-1,2-Dichloroethene      | 1                       | U |
| 156-60-5   | -----trans-1,2-Dichloroethene    | 1                       | U |
| 67-66-3    | -----Chloroform                  | 1                       | U |
| 107-06-2   | -----1,2-Dichloroethane          | 6                       |   |
| 78-93-3    | -----2-Butanone                  | 5                       | U |
| 74-97-5    | -----Bromochloromethane          | 1                       | U |
| 71-55-6    | -----1,1,1-Trichloroethane       | 1                       | U |
| 56-23-5    | -----Carbon tetrachloride        | 5                       |   |
| 75-27-4    | -----Bromodichloromethane        | 1                       | U |
| 78-87-5    | -----1,2-Dichloropropane         | 5                       |   |
| 10061-01-5 | -----cis-1,3-Dichloropropene     | 5                       |   |
| 79-01-6    | -----Trichloroethene             | 5                       |   |
| 124-48-1   | -----Dibromochloromethane        | 1                       | U |
| 79-00-5    | -----1,1,2-Trichloroethane       | 4                       |   |
| 71-43-2    | -----Benzene                     | 5                       |   |
| 10061-02-6 | -----trans-1,3-Dichloropropene   | 1                       | U |
| 75-25-2    | -----Bromoform                   | 5                       |   |
| 108-10-1   | -----4-Methyl-2-pentanone        | 5                       | U |
| 591-78-6   | -----2-Hexanone                  | 5                       | U |
| 127-18-4   | -----Tetrachloroethene           | 5                       |   |
| 79-34-5    | -----1,1,2,2-Tetrachloroethane   | 1                       | U |
| 106-93-4   | -----1,2-Dibromoethane           | 4                       |   |
| 108-88-3   | -----Toluene                     | 1                       | U |
| 108-90-7   | -----Chlorobenzene               | 1                       | U |
| 100-41-4   | -----Ethylbenzene                | 1                       | U |
| 100-42-5   | -----Styrene                     | 1                       | U |
| 1330-20-7  | -----Xylenes (total)             | 1                       | U |
| 541-73-1   | -----1,3-Dichlorobenzene         | 1                       | U |
| 106-46-7   | -----1,4-Dichlorobenzene         | 4                       |   |
| 95-50-1    | -----1,2-Dichlorobenzene         | 1                       | U |
| 96-12-8    | -----1,2-Dibromo-3-chloropropane | 1                       | U |
| 120-82-1   | -----1,2,4-Trichlorobenzene      | 1                       | U |

000255

2LGB  
LOW CONC. WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

Lab Code: PDP Case No.: 27986 SAS No.: SDG No.: EDPK9

| EPA        | NBZ    | FBP    | TPH    | PHL    | ZFP    | TBP    | OTHER | TOT |
|------------|--------|--------|--------|--------|--------|--------|-------|-----|
| SAMPLE NO. | %REC # | %REC # | %REC # | %REC # | %REC # | %REC # |       | OUT |
| 01 SBLK27  | 67     | 60     | 94     | 69     | 77     | 83     |       | 0   |
| 02 SLCS60  | 81     | 76     | 84     | 85     | 89     | 74     |       | 0   |
| 03 EDPK9   | 68     | 63     | 92     | 71     | 79     | 87     |       | 0   |
| 04 EDPLO   | 66     | 57     | 63     | 67     | 78     | 64     |       | 0   |
| 05 EDP11   | 56     | 50     | 95     | 57     | 68     | 80     |       | 0   |
| 06 EDP12   | 60     | 54     | 93     | 61     | 71     | 79     |       | 0   |
| 07 EDP13   | 62     | 57     | 70     | 65     | 71     | 68     |       | 0   |
| 08 EDP14   | 59     | 53     | 69     | 60     | 67     | 66     |       | 0   |
| 09 EDP15   | 56     | 49     | 63     | 62     | 64     | 62     |       | 0   |
| 10 EDP16   | 42     | 34     | 59     | 42     | 45     | 48     |       | 0   |
| 11 EDP17   | 60     | 55     | 72     | 61     | 67     | 69     |       | 0   |
| 12 EDP18   | 38     | 30     | 41     | 41     | 45     | 39     |       | 0   |
| 13 EDPM0   | 42     | 37     | 48     | 42     | 44     | 48     |       | 0   |
| 14 EDPM1   | 81     | 73     | 84     | 94     | 97     | 85     |       | 0   |
| 15 EDPM2   | 68     | 60     | 72     | 69     | 72     | 75     |       | 0   |
| 16         |        |        |        |        |        |        |       |     |
| 17         |        |        |        |        |        |        |       |     |
| 18         |        |        |        |        |        |        |       |     |
| 19         |        |        |        |        |        |        |       |     |
| 20         |        |        |        |        |        |        |       |     |
| 21         |        |        |        |        |        |        |       |     |
| 22         |        |        |        |        |        |        |       |     |
| 23         |        |        |        |        |        |        |       |     |
| 24         |        |        |        |        |        |        |       |     |
| 25         |        |        |        |        |        |        |       |     |
| 26         |        |        |        |        |        |        |       |     |
| 27         |        |        |        |        |        |        |       |     |
| 28         |        |        |        |        |        |        |       |     |
| 29         |        |        |        |        |        |        |       |     |
| 30         |        |        |        |        |        |        |       |     |

QC LIMITS

%REC

NBZ = Nitrobenzene-d5 (23-120)  
 FBP = 2-Fluorobiphenyl (30-115)  
 TPH = Terphenyl-d14 (18-140)  
 PHL = Phenol-d5 (15-115)  
 ZFP = 2-Fluorophenol (15-121)  
 TBP = 2,4,6-Tribromophenol (15-130)

# Column to be used to flag recovery values.  
 \* Values outside of contract required QC limits.  
 † Surrogate diluted out.

SLCS60

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

Lab Code: PDP Case No.: 27986 SAS No.: \_\_\_\_\_ SDG No.: EDPK9

Lab Sample ID: SVOL592 LCS Lot No.:

Lab File ID: H0927 Date Extracted: 04/23/00

LCS Aliquot: 1000 (uL) Date Analyzed: 05/05/00

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

| COMPOUND                   | AMOUNT<br>ADDED<br>(ng) | AMOUNT<br>RECOVERED<br>(ng) | %REC # | QC<br>LIMITS |
|----------------------------|-------------------------|-----------------------------|--------|--------------|
| Phenol                     | 40000                   | 37000                       | 92     | 40-120       |
| bis(2-Chloroethyl) ether   | 20000                   | 19000                       | 95     | 50-110       |
| 2-Chlorophenol             | 40000                   | 38000                       | 95     | 50-110       |
| N-Nitroso-di-n-propylamine | 20000                   | 18000                       | 90     | 30-110       |
| Hexachloroethane           | 20000                   | 10000                       | 50     | 20-110       |
| Isophorone                 | 20000                   | 13000                       | 65     | 50-110       |
| Naphthalene                | 20000                   | 17000                       | 85     | 30-110       |
| 4-Chloroaniline            | 40000                   | 28000                       | 70     | 10-120       |
| 2,4,6-Trichlorophenol      | 40000                   | 31000                       | 78     | 40-120       |
| 2,4-Dinitrotoluene         | 20000                   | 12000                       | 60     | 30-120       |
| Diethylphthalate           | 20000                   | 14000                       | 70     | 50-120       |
| N-Nitrosodiphenylamine     | 20000                   | 11000                       | 55     | 30-110       |
| Hexachlorobenzene          | 20000                   | 13000                       | 65     | 40-120       |
| Benzo(a)pyrene             | 20000                   | 14000                       | 70     | 50-120       |

# Column to be used to flag LCS recovery with an asterisk.

\* Values outside of QC limits.

LCS Recovery: 0 outside limits out of 14 total.

COMMENTS: \_\_\_\_\_  
 \_\_\_\_\_

4LCB  
 LOW CONC. WATER SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLK27

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004  
 Lab Code: PDP Case No.: 27986 SAS No.: \_\_\_\_\_ SDG No.: EDPK9  
 Lab Sample ID: SVOB700 Date Extracted: 04/23/00  
 Lab File ID: H0926 Date Analyzed: 05/05/00  
 Instrument ID: H-HP5973 Time Analyzed: 0043

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND LCS:

|    | EPA<br>SAMPLE NO. | LAB<br>SAMPLE ID | LAB<br>FILE ID | DATE<br>ANALYZED |
|----|-------------------|------------------|----------------|------------------|
| 01 | SLCS60            | SVOL592          | H0927          | 05/05/00         |
| 02 | EDPK9             | 6004.002         | H0928          | 05/05/00         |
| 03 | EDPL0             | 6004.003         | H0929          | 05/05/00         |
| 04 | EDPL1             | 6004.004         | H0930          | 05/05/00         |
| 05 | EDPL2             | 6004.005         | H0931          | 05/05/00         |
| 06 | EDPL3             | 6004.006         | H0932          | 05/05/00         |
| 07 | EDPL4             | 6004.007         | H0933          | 05/05/00         |
| 08 | EDPL5             | 6004.008         | H0937          | 05/05/00         |
| 09 | EDPL6             | 6004.009         | H0938          | 05/05/00         |
| 10 | EDPL7             | 6004.010         | H0939          | 05/05/00         |
| 11 | EDPL8             | 6004.011         | H0940          | 05/05/00         |
| 12 | EDPM0             | 6004.013         | H0941          | 05/05/00         |
| 13 | EDPM1             | 6008.001         | H0942          | 05/05/00         |
| 14 | EDPM2             | 6008.002         | H0943          | 05/05/00         |
| 15 |                   |                  |                |                  |
| 16 |                   |                  |                |                  |
| 17 |                   |                  |                |                  |
| 18 |                   |                  |                |                  |
| 19 |                   |                  |                |                  |
| 20 |                   |                  |                |                  |
| 21 |                   |                  |                |                  |
| 22 |                   |                  |                |                  |
| 23 |                   |                  |                |                  |
| 24 |                   |                  |                |                  |
| 25 |                   |                  |                |                  |
| 26 |                   |                  |                |                  |
| 27 |                   |                  |                |                  |
| 28 |                   |                  |                |                  |
| 29 |                   |                  |                |                  |
| 30 |                   |                  |                |                  |

COMMENTS:

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1LCB  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK27

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004  
 Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: EDPK9  
 Lab Sample ID: SVOB700      Date Received: \_\_\_\_\_  
 Lab File ID: H0926      Date Extracted: 04/23/00  
 Sample Volume: 1000 (mL)      Date Analyzed: 05/05/00  
 Concentrated Extract Volume: 1000 (uL)      Dilution Factor: 1.0  
 Injection Volume: 1.0 (uL)

| CAS NO.  | COMPOUND                     | CONCENTRATION<br>(ug/L) | Q |
|----------|------------------------------|-------------------------|---|
| 108-95-2 | Phenol                       | 5                       | U |
| 111-44-4 | bis(2-Chloroethyl) ether     | 5                       | U |
| 95-57-8  | 2-Chlorophenol               | 5                       | U |
| 95-48-7  | 2-Methylphenol               | 5                       | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 5                       | U |
| 106-44-5 | 4-Methylphenol               | 5                       | U |
| 621-64-7 | N-Nitroso-di-n-propylamine   | 5                       | U |
| 67-72-1  | Hexachloroethane             | 5                       | U |
| 98-95-3  | Nitrobenzene                 | 5                       | U |
| 78-59-1  | Isophorone                   | 5                       | U |
| 88-75-5  | 2-Nitrophenol                | 5                       | U |
| 105-67-9 | 2,4-Dimethylphenol           | 5                       | U |
| 111-91-1 | bis(2-Chloroethoxy)methane   | 5                       | U |
| 120-83-2 | 2,4-Dichlorophenol           | 5                       | U |
| 91-20-3  | Naphthalene                  | 5                       | U |
| 106-47-8 | 4-Chloroaniline              | 5                       | U |
| 87-68-3  | Hexachlorobutadiene          | 5                       | U |
| 59-50-7  | 4-Chloro-3-methylphenol      | 5                       | U |
| 91-57-6  | 2-Methylnaphthalene          | 5                       | U |
| 77-47-4  | Hexachlorocyclopentadiene    | 5                       | U |
| 88-06-2  | 2,4,6-Trichlorophenol        | 5                       | U |
| 95-95-4  | 2,4,5-Trichlorophenol        | 20                      | U |
| 91-58-7  | 2-Chloronaphthalene          | 5                       | U |
| 88-74-4  | 2-Nitroaniline               | 20                      | U |
| 131-11-3 | Dimethylphthalate            | 5                       | U |
| 208-96-8 | Acenaphthylene               | 5                       | U |
| 606-20-2 | 2,6-Dinitrotoluene           | 5                       | U |
| 99-09-2  | 3-Nitroaniline               | 20                      | U |
| 83-32-9  | Acenaphthene                 | 5                       | U |

1LCC  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK27

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004  
 Lab Code: PDP Case No.: 27986 SAS No.: \_\_\_\_\_ SDG No.: EDPK9  
 Lab Sample ID: SVOB700 Date Received: \_\_\_\_\_  
 Lab File ID: H0926 Date Extracted: 04/23/00  
 Sample Volume: 1000 (mL) Date Analyzed: 05/05/00  
 Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0  
 Injection Volume: 1 (uL)

| CAS NO.   | COMPOUND                   | CONCENTRATION<br>(ug/L) | Q |
|-----------|----------------------------|-------------------------|---|
| 51-28-5   | 2,4-Dinitrophenol          | 20                      | U |
| 100-02-7  | 4-Nitrophenol              | 20                      | U |
| 132-64-9  | Dibenzofuran               | 5                       | U |
| 121-14-2  | 2,4-Dinitrotoluene         | 5                       | U |
| 84-66-2   | Diethylphthalate           | 5                       | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 5                       | U |
| 86-73-7   | Fluorene                   | 5                       | U |
| 100-01-6  | 4-Nitroaniline             | 20                      | U |
| 534-52-1  | 4,6-Dinitro-2-methylphenol | 20                      | U |
| 86-30-6   | N-Nitrosodiphenylamine (1) | 5                       | U |
| 101-55-3  | 4-Bromophenyl-phenylether  | 5                       | U |
| 118-74-1  | Hexachlorobenzene          | 5                       | U |
| 87-86-5   | Pentachlorophenol          | 20                      | U |
| 85-01-8   | Phenanthrene               | 5                       | U |
| 120-12-7  | Anthracene                 | 5                       | U |
| 84-74-2   | Di-n-butylphthalate        | 5                       | U |
| 206-44-0  | Fluoranthene               | 5                       | U |
| 129-00-0  | Pyrene                     | 5                       | U |
| 85-68-7   | Butylbenzylphthalate       | 5                       | U |
| 91-94-1   | 3,3'-Dichlorobenzidine     | 5                       | U |
| 56-55-3   | Benzo(a)anthracene         | 5                       | U |
| 218-01-9  | Chrysene                   | 5                       | U |
| 117-81-7  | bis(2-Ethylhexyl)phthalate | 5                       | U |
| 117-84-0  | Di-n-octylphthalate        | 5                       | U |
| 205-99-2  | Benzo(b)fluoranthene       | 5                       | U |
| 207-08-9  | Benzo(k)fluoranthene       | 5                       | U |
| 50-32-8   | Benzo(a)pyrene             | 5                       | U |
| 193-39-5  | Indeno(1,2,3-cd)Pyrene     | 5                       | U |
| 53-70-3   | Dibenz(a,h)anthracene      | 5                       | U |
| 191-24-2  | Benzo(g,h,i)perylene       | 5                       | U |

(1) - Cannot be separated from Diphenylamine

1LCF  
LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SBLK27

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

Lab Code: PDP Case No.: 27986 SAS No.: \_\_\_\_\_ SDG No.: EDPK9

Lab Sample ID: SVOB700 Date Received: \_\_\_\_\_

Lab File ID: H0926 Date Extracted: 04/23/00

Sample Volume: 1000 (mL) Date Analyzed: 05/05/00

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

Number TICs found: 0

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC.<br>(ug/L) | Q |
|------------|---------------|----|----------------------|---|
| 1.         |               |    |                      |   |
| 2.         |               |    |                      |   |
| 3.         |               |    |                      |   |
| 4.         |               |    |                      |   |
| 5.         |               |    |                      |   |
| 6.         |               |    |                      |   |
| 7.         |               |    |                      |   |
| 8.         |               |    |                      |   |
| 9.         |               |    |                      |   |
| 10.        |               |    |                      |   |
| 11.        |               |    |                      |   |
| 12.        |               |    |                      |   |
| 13.        |               |    |                      |   |
| 14.        |               |    |                      |   |
| 15.        |               |    |                      |   |
| 16.        |               |    |                      |   |
| 17.        |               |    |                      |   |
| 18.        |               |    |                      |   |
| 19.        |               |    |                      |   |
| 20.        |               |    |                      |   |
| 21.        |               |    |                      |   |
| 22.        |               |    |                      |   |
| 23.        |               |    |                      |   |
| 24.        |               |    |                      |   |
| 25.        |               |    |                      |   |
| 26.        |               |    |                      |   |
| 27.        |               |    |                      |   |
| 28.        |               |    |                      |   |
| 29.        |               |    |                      |   |
| 30.        |               |    |                      |   |

1LCB  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDPK9

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

Lab Code: PDP Case No.: 27986 SAS No.: \_\_\_\_\_ SDG No.: EDPK9

Lab Sample ID: 6004.002 Date Received: 04/19/00

Lab File ID: H0928 Date Extracted: 04/23/00

Sample Volume: 1000 (mL) Date Analyzed: 05/05/00

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

| CAS NO.  | COMPOUND                     | CONCENTRATION<br>(ug/L) | Q |
|----------|------------------------------|-------------------------|---|
| 108-95-2 | Phenol                       | 5                       | U |
| 111-44-4 | bis(2-Chloroethyl) ether     | 5                       | U |
| 95-57-8  | 2-Chlorophenol               | 5                       | U |
| 95-48-7  | 2-Methylphenol               | 5                       | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 5                       | U |
| 106-44-5 | 4-Methylphenol               | 5                       | U |
| 621-64-7 | N-Nitroso-di-n-propylamine   | 5                       | U |
| 67-72-1  | Hexachloroethane             | 5                       | U |
| 98-95-3  | Nitrobenzene                 | 5                       | U |
| 78-59-1  | Isophorone                   | 5                       | U |
| 88-75-5  | 2-Nitrophenol                | 5                       | U |
| 105-67-9 | 2,4-Dimethylphenol           | 5                       | U |
| 111-91-1 | bis(2-Chloroethoxy) methane  | 5                       | U |
| 120-83-2 | 2,4-Dichlorophenol           | 5                       | U |
| 91-20-3  | Naphthalene                  | 5                       | U |
| 106-47-8 | 4-Chloroaniline              | 5                       | U |
| 87-68-3  | Hexachlorobutadiene          | 5                       | U |
| 59-50-7  | 4-Chloro-3-methylphenol      | 5                       | U |
| 91-57-6  | 2-Methylnaphthalene          | 5                       | U |
| 77-47-4  | Hexachlorocyclopentadiene    | 5                       | U |
| 88-06-2  | 2,4,6-Trichlorophenol        | 5                       | U |
| 95-95-4  | 2,4,5-Trichlorophenol        | 20                      | U |
| 91-58-7  | 2-Chloronaphthalene          | 5                       | U |
| 88-74-4  | 2-Nitroaniline               | 20                      | U |
| 131-11-3 | Dimethylphthalate            | 5                       | U |
| 208-96-8 | Acenaphthylene               | 5                       | U |
| 606-20-2 | 2,6-Dinitrotoluene           | 5                       | U |
| 99-09-2  | 3-Nitroaniline               | 20                      | U |
| 83-32-9  | Acenaphthene                 | 5                       | U |

1LCC  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDPK9

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: EDPK9

Lab Sample ID: 6004.002

Date Received: 04/19/00

Lab File ID: H0928

Date Extracted: 04/23/00

Sample Volume: 1000 (mL)

Date Analyzed: 05/05/00

Concentrated Extract Volume: 1000 (uL)

Dilution Factor: 1.0

Injection Volume: 1 (uL)

| CAS NO.   | COMPOUND                   | CONCENTRATION<br>(ug/L) | Q |
|-----------|----------------------------|-------------------------|---|
| 51-28-5   | 2,4-Dinitrophenol          | 20                      | U |
| 100-02-7  | 4-Nitrophenol              | 20                      | U |
| 132-64-9  | Dibenzofuran               | 5                       | U |
| 121-14-2  | 2,4-Dinitrotoluene         | 5                       | U |
| 84-66-2   | Diethylphthalate           | 5                       | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 5                       | U |
| 86-73-7   | Fluorene                   | 5                       | U |
| 100-01-6  | 4-Nitroaniline             | 20                      | U |
| 534-52-1  | 4,6-Dinitro-2-methylphenol | 20                      | U |
| 86-30-6   | N-Nitrosodiphenylamine (1) | 5                       | U |
| 101-55-3  | 4-Bromophenyl-phenylether  | 5                       | U |
| 118-74-1  | Hexachlorobenzene          | 5                       | U |
| 87-86-5   | Pentachlorophenol          | 20                      | U |
| 85-01-8   | Phenanthrene               | 5                       | U |
| 120-12-7  | Anthracene                 | 5                       | U |
| 84-74-2   | Di-n-butylphthalate        | 5                       | U |
| 206-44-0  | Fluoranthene               | 5                       | U |
| 129-00-0  | Pyrene                     | 5                       | U |
| 85-68-7   | Butylbenzylphthalate       | 5                       | U |
| 91-94-1   | 3,3'-Dichlorobenzidine     | 5                       | U |
| 56-55-3   | Benzo(a)anthracene         | 5                       | U |
| 218-01-9  | Chrysene                   | 5                       | U |
| 117-81-7  | bis(2-Ethylhexyl)phthalate | 5                       | U |
| 117-84-0  | Di-n-octylphthalate        | 5                       | U |
| 205-99-2  | Benzo(b)fluoranthene       | 5                       | U |
| 207-08-9  | Benzo(k)fluoranthene       | 5                       | U |
| 50-32-8   | Benzo(a)pyrene             | 5                       | U |
| 193-39-5  | Indeno(1,2,3-cd)Pyrene     | 5                       | U |
| 53-70-3   | Dibenz(a,h)anthracene      | 5                       | U |
| 191-24-2  | Benzo(g,h,i)perylene       | 5                       | U |

(1) - Cannot be separated from Diphenylamine

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EDPK9

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: EDPK9

Lab Sample ID: 6004.002

Date Received: 04/19/00

Lab File ID: H0928

Date Extracted: 04/23/00

Sample Volume: 1000 (mL)

Date Analyzed: 05/05/00

Concentrated Extract Volume: 1000 (uL)

Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

Number TICs found: 0

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC.<br>(ug/L) | Q |
|------------|---------------|----|----------------------|---|
| 1.         |               |    |                      |   |
| 2.         |               |    |                      |   |
| 3.         |               |    |                      |   |
| 4.         |               |    |                      |   |
| 5.         |               |    |                      |   |
| 6.         |               |    |                      |   |
| 7.         |               |    |                      |   |
| 8.         |               |    |                      |   |
| 9.         |               |    |                      |   |
| 10.        |               |    |                      |   |
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| 12.        |               |    |                      |   |
| 13.        |               |    |                      |   |
| 14.        |               |    |                      |   |
| 15.        |               |    |                      |   |
| 16.        |               |    |                      |   |
| 17.        |               |    |                      |   |
| 18.        |               |    |                      |   |
| 19.        |               |    |                      |   |
| 20.        |               |    |                      |   |
| 21.        |               |    |                      |   |
| 22.        |               |    |                      |   |
| 23.        |               |    |                      |   |
| 24.        |               |    |                      |   |
| 25.        |               |    |                      |   |
| 26.        |               |    |                      |   |
| 27.        |               |    |                      |   |
| 28.        |               |    |                      |   |
| 29.        |               |    |                      |   |
| 30.        |               |    |                      |   |

1LCB  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDPLO

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004  
 Lab Code: PDP Case No.: 27986 SAS No.: \_\_\_\_\_ SDG No.: EDPK9  
 Lab Sample ID: 6004.003 Date Received: 04/19/00  
 Lab File ID: H0929 Date Extracted: 04/23/00  
 Sample Volume: 1000 (mL) Date Analyzed: 05/05/00  
 Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0  
 Injection Volume: 1.0 (uL)

| CAS NO.  | COMPOUND                     | CONCENTRATION<br>(ug/L) | Q |
|----------|------------------------------|-------------------------|---|
| 108-95-2 | Phenol                       | 5                       | U |
| 111-44-4 | bis(2-Chloroethyl) ether     | 5                       | U |
| 95-57-8  | 2-Chlorophenol               | 5                       | U |
| 95-48-7  | 2-Methylphenol               | 5                       | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 5                       | U |
| 106-44-5 | 4-Methylphenol               | 5                       | U |
| 621-64-7 | N-Nitroso-di-n-propylamine   | 5                       | U |
| 67-72-1  | Hexachloroethane             | 5                       | U |
| 98-95-3  | Nitrobenzene                 | 5                       | U |
| 78-59-1  | Isophorone                   | 5                       | U |
| 88-75-5  | 2-Nitrophenol                | 5                       | U |
| 105-67-9 | 2,4-Dimethylphenol           | 5                       | U |
| 111-91-1 | bis(2-Chloroethoxy) methane  | 5                       | U |
| 120-83-2 | 2,4-Dichlorophenol           | 5                       | U |
| 91-20-3  | Naphthalene                  | 5                       | U |
| 106-47-8 | 4-Chloroaniline              | 5                       | U |
| 87-68-3  | Hexachlorobutadiene          | 5                       | U |
| 59-50-7  | 4-Chloro-3-methylphenol      | 5                       | U |
| 91-57-6  | 2-Methylnaphthalene          | 5                       | U |
| 77-47-4  | Hexachlorocyclopentadiene    | 5                       | U |
| 88-06-2  | 2,4,6-Trichlorophenol        | 5                       | U |
| 95-95-4  | 2,4,5-Trichlorophenol        | 20                      | U |
| 91-58-7  | 2-Chloronaphthalane          | 5                       | U |
| 88-74-4  | 2-Nitroaniline               | 20                      | U |
| 131-11-3 | Dimethylphthalate            | 5                       | U |
| 208-96-8 | Acenaphthylene               | 5                       | U |
| 606-20-2 | 2,6-Dinitrotoluene           | 5                       | U |
| 99-09-2  | 3-Nitroaniline               | 20                      | U |
| 83-32-9  | Acenaphthene                 | 5                       | U |

EDPL0

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: EDPK9

Lab Sample ID: 6004.003

Date Received: 04/19/00

Lab File ID: H0929

Date Extracted: 04/23/00

Sample Volume: 1000 (mL)

Date Analyzed: 05/05/00

Concentrated Extract Volume: 1000 (uL)

Dilution Factor: 1.0

Injection Volume: 1 (uL)

| CAS NO.        | COMPOUND                   | CONCENTRATION<br>(ug/L) | Q |
|----------------|----------------------------|-------------------------|---|
| 51-28-5-----   | 2,4-Dinitrophenol          | 20                      | U |
| 100-02-7-----  | 4-Nitrophenol              | 20                      | U |
| 132-64-9-----  | Dibenzofuran               | 5                       | U |
| 121-14-2-----  | 2,4-Dinitrotoluene         | 5                       | U |
| 84-66-2-----   | Diethylphthalate           | 5                       | U |
| 7005-72-3----- | 4-Chlorophenyl-phenylether | 5                       | U |
| 86-73-7-----   | Fluorene                   | 5                       | U |
| 100-01-6-----  | 4-Nitroaniline             | 20                      | U |
| 534-52-1-----  | 4,6-Dinitro-2-methylphenol | 20                      | U |
| 86-30-6-----   | N-Nitrosodiphenylamine (1) | 5                       | U |
| 101-55-3-----  | 4-Bromophenyl-phenylether  | 5                       | U |
| 118-74-1-----  | Hexachlorobenzene          | 5                       | U |
| 87-86-5-----   | Pentachlorophenol          | 20                      | U |
| 85-01-8-----   | Phenanthrene               | 5                       | U |
| 120-12-7-----  | Anthracene                 | 5                       | U |
| 84-74-2-----   | Di-n-butylphthalate        | 5                       | U |
| 206-44-0-----  | Fluoranthene               | 5                       | U |
| 129-00-0-----  | Pyrene                     | 5                       | U |
| 85-68-7-----   | Butylbenzylphthalate       | 5                       | U |
| 91-94-1-----   | 3,3'-Dichlorobenzidine     | 5                       | U |
| 56-55-3-----   | Benzo(a)anthracene         | 5                       | U |
| 218-01-9-----  | Chrysene                   | 5                       | U |
| 117-81-7-----  | bis(2-Ethylhexyl)phthalate | 5                       | U |
| 117-84-0-----  | Di-n-octylphthalate        | 5                       | U |
| 205-99-2-----  | Benzo(b)fluoranthene       | 5                       | U |
| 207-08-9-----  | Benzo(k)fluoranthene       | 5                       | U |
| 50-32-8-----   | Benzo(a)pyrene             | 5                       | U |
| 193-39-5-----  | Indeno(1,2,3-cd)Pyrene     | 5                       | U |
| 53-70-3-----   | Dibenz(a,h)anthracene      | 5                       | U |
| 191-24-2-----  | Benzo(g,h,i)perylene       | 5                       | U |

(1) - Cannot be separated from Diphenylamine

1LCF  
LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EDPLO

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

Lab Code: PDP Case No.: 27986 SAS No.: \_\_\_\_\_ SDG No.: EDPK9

Lab Sample ID: 6004.003 Date Received: 04/19/00

Lab File ID: H0929 Date Extracted: 04/23/00

Sample Volume: 1000 (mL) Date Analyzed: 05/05/00

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

Number TICs found: 0

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC.<br>(ug/L) | Q |
|------------|---------------|----|----------------------|---|
| 1.         |               |    |                      |   |
| 2.         |               |    |                      |   |
| 3.         |               |    |                      |   |
| 4.         |               |    |                      |   |
| 5.         |               |    |                      |   |
| 6.         |               |    |                      |   |
| 7.         |               |    |                      |   |
| 8.         |               |    |                      |   |
| 9.         |               |    |                      |   |
| 10.        |               |    |                      |   |
| 11.        |               |    |                      |   |
| 12.        |               |    |                      |   |
| 13.        |               |    |                      |   |
| 14.        |               |    |                      |   |
| 15.        |               |    |                      |   |
| 16.        |               |    |                      |   |
| 17.        |               |    |                      |   |
| 18.        |               |    |                      |   |
| 19.        |               |    |                      |   |
| 20.        |               |    |                      |   |
| 21.        |               |    |                      |   |
| 22.        |               |    |                      |   |
| 23.        |               |    |                      |   |
| 24.        |               |    |                      |   |
| 25.        |               |    |                      |   |
| 26.        |               |    |                      |   |
| 27.        |               |    |                      |   |
| 28.        |               |    |                      |   |
| 29.        |               |    |                      |   |
| 30.        |               |    |                      |   |

1LCB  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDPL1

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004  
 Lab Code: PDP Case No.: 27986 SAS No.: \_\_\_\_\_ SDG No.: EDPK9  
 Lab Sample ID: 6004.004 Date Received: 04/19/00  
 Lab File ID: H0930 Date Extracted: 04/23/00  
 Sample Volume: 1000 (mL) Date Analyzed: 05/05/00  
 Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0  
 Injection Volume: 1.0 (uL)

| CAS NO.  | COMPOUND                     | CONCENTRATION (ug/L) | Q |
|----------|------------------------------|----------------------|---|
| 108-95-2 | Phenol                       | 5                    | U |
| 111-44-4 | bis(2-Chloroethyl) ether     | 5                    | U |
| 95-57-8  | 2-Chlorophenol               | 5                    | U |
| 95-48-7  | 2-Methylphenol               | 5                    | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 5                    | U |
| 106-44-5 | 4-Methylphenol               | 5                    | U |
| 621-64-7 | N-Nitroso-di-n-propylamine   | 5                    | U |
| 67-72-1  | Hexachloroethane             | 5                    | U |
| 98-95-3  | Nitrobenzene                 | 5                    | U |
| 78-59-1  | Isophorone                   | 5                    | U |
| 88-75-5  | 2-Nitrophenol                | 5                    | U |
| 105-67-9 | 2,4-Dimethylphenol           | 5                    | U |
| 111-91-1 | bis(2-Chloroethoxy)methane   | 5                    | U |
| 120-83-2 | 2,4-Dichlorophenol           | 5                    | U |
| 91-20-3  | Naphthalene                  | 5                    | U |
| 106-47-8 | 4-Chloroaniline              | 5                    | U |
| 87-68-3  | Hexachlorobutadiene          | 5                    | U |
| 59-50-7  | 4-Chloro-3-methylphenol      | 5                    | U |
| 91-57-6  | 2-Methylnaphthalene          | 5                    | U |
| 77-47-4  | Hexachlorocyclopentadiene    | 5                    | U |
| 88-06-2  | 2,4,6-Trichlorophenol        | 5                    | U |
| 95-95-4  | 2,4,5-Trichlorophenol        | 20                   | U |
| 91-58-7  | 2-Chloronaphthalene          | 5                    | U |
| 88-74-4  | 2-Nitroaniline               | 20                   | U |
| 131-11-3 | Dimethylphthalate            | 5                    | U |
| 208-96-8 | Acenaphthylene               | 5                    | U |
| 606-20-2 | 2,6-Dinitrotoluene           | 5                    | U |
| 99-09-2  | 3-Nitroaniline               | 20                   | U |
| 83-32-9  | Acenaphthene                 | 5                    | U |

1LCC  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDPL1

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004  
 Lab Code: PDP Case No.: 27986 SAS No.: \_\_\_\_\_ SDG No.: EDPK9  
 Lab Sample ID: 6004.004 Date Received: 04/19/00  
 Lab File ID: H0930 Date Extracted: 04/23/00  
 Sample Volume: 1000 (mL) Date Analyzed: 05/05/00  
 Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0  
 Injection Volume: 1 (uL)

| CAS NO.   | COMPOUND                   | CONCENTRATION<br>(ug/L) | Q |
|-----------|----------------------------|-------------------------|---|
| 51-28-5   | 2,4-Dinitrophenol          | 20                      | U |
| 100-02-7  | 4-Nitrophenol              | 20                      | U |
| 132-64-9  | Dibenzofuran               | 5                       | U |
| 121-14-2  | 2,4-Dinitrotoluene         | 5                       | U |
| 84-66-2   | Diethylphthalate           | 5                       | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 5                       | U |
| 86-73-7   | Fluorene                   | 5                       | U |
| 100-01-6  | 4-Nitroaniline             | 20                      | U |
| 534-52-1  | 4,6-Dinitro-2-methylphenol | 20                      | U |
| 86-30-6   | N-Nitrosodiphenylamine (1) | 5                       | U |
| 101-55-3  | 4-Bromophenyl-phenylether  | 5                       | U |
| 118-74-1  | Hexachlorobenzene          | 5                       | U |
| 87-86-5   | Pentachlorophenol          | 20                      | U |
| 85-01-8   | Phenanthrene               | 5                       | U |
| 120-12-7  | Anthracene                 | 5                       | U |
| 84-74-2   | Di-n-butylphthalate        | 5                       | U |
| 206-44-0  | Fluoranthene               | 5                       | U |
| 129-00-0  | Pyrene                     | 5                       | U |
| 85-68-7   | Butylbenzylphthalate       | 5                       | U |
| 91-94-1   | 3,3'-Dichlorobenzidine     | 5                       | U |
| 56-55-3   | Benzo(a)anthracene         | 5                       | U |
| 218-01-9  | Chrysene                   | 5                       | U |
| 117-81-7  | bis(2-Ethylhexyl)phthalate | 5                       | U |
| 117-84-0  | Di-n-octylphthalate        | 5                       | U |
| 205-99-2  | Benzo(b)fluoranthene       | 5                       | U |
| 207-08-9  | Benzo(k)fluoranthene       | 5                       | U |
| 50-32-8   | Benzo(a)pyrene             | 5                       | U |
| 193-39-5  | Indeno(1,2,3-cd)Pyrene     | 5                       | U |
| 53-70-3   | Dibenz(a,h)anthracene      | 5                       | U |
| 191-24-2  | Benzo(g,h,i)perylene       | 5                       | U |

(1) - Cannot be separated from Diphenylamine

1LCF  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

|       |
|-------|
| EDPL1 |
|-------|

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004

Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: EDPK9

Lab Sample ID: 6004.004      Date Received: 04/19/00

Lab File ID: H0930      Date Extracted: 04/23/00

Sample Volume: 1000 (mL)      Date Analyzed: 05/05/00

Concentrated Extract Volume: 1000 (uL)      Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

Number TICs found: 0

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC.<br>(ug/L) | Q |
|------------|---------------|----|----------------------|---|
| 1.         |               |    |                      |   |
| 2.         |               |    |                      |   |
| 3.         |               |    |                      |   |
| 4.         |               |    |                      |   |
| 5.         |               |    |                      |   |
| 6.         |               |    |                      |   |
| 7.         |               |    |                      |   |
| 8.         |               |    |                      |   |
| 9.         |               |    |                      |   |
| 10.        |               |    |                      |   |
| 11.        |               |    |                      |   |
| 12.        |               |    |                      |   |
| 13.        |               |    |                      |   |
| 14.        |               |    |                      |   |
| 15.        |               |    |                      |   |
| 16.        |               |    |                      |   |
| 17.        |               |    |                      |   |
| 18.        |               |    |                      |   |
| 19.        |               |    |                      |   |
| 20.        |               |    |                      |   |
| 21.        |               |    |                      |   |
| 22.        |               |    |                      |   |
| 23.        |               |    |                      |   |
| 24.        |               |    |                      |   |
| 25.        |               |    |                      |   |
| 26.        |               |    |                      |   |
| 27.        |               |    |                      |   |
| 28.        |               |    |                      |   |
| 29.        |               |    |                      |   |
| 30.        |               |    |                      |   |

1LCB  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDPL2

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004  
 Lab Code: PDP Case No.: 27986 SAS No.: \_\_\_\_\_ SDG No.: EDPK9  
 Lab Sample ID: 6004.005 Date Received: 04/19/00  
 Lab File ID: H0931 Date Extracted: 04/23/00  
 Sample Volume: 1000 (mL) Date Analyzed: 05/05/00  
 Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0  
 Injection Volume: 1.0 (uL)

| CAS NO.  | COMPOUND                     | CONCENTRATION<br>(ug/L) | Q |
|----------|------------------------------|-------------------------|---|
| 108-95-2 | Phenol                       | 5                       | U |
| 111-44-4 | bis(2-Chloroethyl) ether     | 5                       | U |
| 95-57-8  | 2-Chlorophenol               | 5                       | U |
| 95-48-7  | 2-Methylphenol               | 5                       | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 5                       | U |
| 106-44-5 | 4-Methylphenol               | 5                       | U |
| 621-64-7 | N-Nitroso-di-n-propylamine   | 5                       | U |
| 67-72-1  | Hexachloroethane             | 5                       | U |
| 98-95-3  | Nitrobenzene                 | 5                       | U |
| 78-59-1  | Isophorone                   | 5                       | U |
| 88-75-5  | 2-Nitrophenol                | 5                       | U |
| 105-67-9 | 2,4-Dimethylphenol           | 5                       | U |
| 111-91-1 | bis(2-Chloroethoxy)methane   | 5                       | U |
| 120-83-2 | 2,4-Dichlorophenol           | 5                       | U |
| 91-20-3  | Naphthalene                  | 5                       | U |
| 106-47-8 | 4-Chloroaniline              | 5                       | U |
| 87-68-3  | Hexachlorobutadiene          | 5                       | U |
| 59-50-7  | 4-Chloro-3-methylphenol      | 5                       | U |
| 91-57-6  | 2-Methylnaphthalene          | 5                       | U |
| 77-47-4  | Hexachlorocyclopentadiene    | 5                       | U |
| 88-06-2  | 2,4,6-Trichlorophenol        | 5                       | U |
| 95-95-4  | 2,4,5-Trichlorophenol        | 20                      | U |
| 91-58-7  | 2-Chloronaphthalane          | 5                       | U |
| 88-74-4  | 2-Nitroaniline               | 20                      | U |
| 131-11-3 | Dimethylphthalate            | 5                       | U |
| 208-96-8 | Acenaphthylene               | 5                       | U |
| 606-20-2 | 2,6-Dinitrotoluene           | 5                       | U |
| 99-09-2  | 3-Nitroaniline               | 20                      | U |
| 83-32-9  | Acenaphthene                 | 5                       | U |

EDPL2

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004

Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: EDPK9

Lab Sample ID: 6004.005      Date Received: 04/19/00

Lab File ID: H0931      Date Extracted: 04/23/00

Sample Volume: 1000 (mL)      Date Analyzed: 05/05/00

Concentrated Extract Volume: 1000 (uL)      Dilution Factor: 1.0

Injection Volume: 1 (uL)

| CAS NO.   | COMPOUND                   | CONCENTRATION (ug/L) | Q |
|-----------|----------------------------|----------------------|---|
| 51-28-5   | 2,4-Dinitrophenol          | 20                   | U |
| 100-02-7  | 4-Nitrophenol              | 20                   | U |
| 132-64-9  | Dibenzofuran               | 5                    | U |
| 121-14-2  | 2,4-Dinitrotoluene         | 5                    | U |
| 84-66-2   | Diethylphthalate           | 5                    | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 5                    | U |
| 86-73-7   | Fluorene                   | 5                    | U |
| 100-01-6  | 4-Nitroaniline             | 20                   | U |
| 534-52-1  | 4,6-Dinitro-2-methylphenol | 20                   | U |
| 86-30-6   | N-Nitrosodiphenylamine (1) | 5                    | U |
| 101-55-3  | 4-Bromophenyl-phenylether  | 5                    | U |
| 118-74-1  | Hexachlorobenzene          | 5                    | U |
| 87-86-5   | Pentachlorophenol          | 20                   | U |
| 85-01-8   | Phenanthrene               | 5                    | U |
| 120-12-7  | Anthracene                 | 5                    | U |
| 84-74-2   | Di-n-butylphthalate        | 5                    | U |
| 206-44-0  | Fluoranthene               | 5                    | U |
| 129-00-0  | Pyrene                     | 5                    | U |
| 85-68-7   | Butylbenzylphthalate       | 5                    | U |
| 91-94-1   | 3,3'-Dichlorobenzidine     | 5                    | U |
| 56-55-3   | Benzo(a)anthracene         | 5                    | U |
| 218-01-9  | Chrysene                   | 5                    | U |
| 117-81-7  | bis(2-Ethylhexyl)phthalate | 5                    | U |
| 117-84-0  | Di-n-octylphthalate        | 5                    | U |
| 205-99-2  | Benzo(b)fluoranthene       | 5                    | U |
| 207-08-9  | Benzo(k)fluoranthene       | 5                    | U |
| 50-32-8   | Benzo(a)pyrene             | 5                    | U |
| 193-39-5  | Indeno(1,2,3-cd)Pyrene     | 5                    | U |
| 53-70-3   | Dibenz(a,h)anthracene      | 5                    | U |
| 191-24-2  | Benzo(g,h,i)perylene       | 5                    | U |

(1) - Cannot be separated from Diphenylamine

1LCF  
LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EDPL2

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

Lab Code: PDP Case No.: 27986 SAS No.: \_\_\_\_\_ SDG No.: EDPK9

Lab Sample ID: 6004.005 Date Received: 04/19/00

Lab File ID: H0931 Date Extracted: 04/23/00

Sample Volume: 1000 (mL) Date Analyzed: 05/05/00

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

Number TICs found: 0

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC.<br>(ug/L) | Q |
|------------|---------------|----|----------------------|---|
| 1.         |               |    |                      |   |
| 2.         |               |    |                      |   |
| 3.         |               |    |                      |   |
| 4.         |               |    |                      |   |
| 5.         |               |    |                      |   |
| 6.         |               |    |                      |   |
| 7.         |               |    |                      |   |
| 8.         |               |    |                      |   |
| 9.         |               |    |                      |   |
| 10.        |               |    |                      |   |
| 11.        |               |    |                      |   |
| 12.        |               |    |                      |   |
| 13.        |               |    |                      |   |
| 14.        |               |    |                      |   |
| 15.        |               |    |                      |   |
| 16.        |               |    |                      |   |
| 17.        |               |    |                      |   |
| 18.        |               |    |                      |   |
| 19.        |               |    |                      |   |
| 20.        |               |    |                      |   |
| 21.        |               |    |                      |   |
| 22.        |               |    |                      |   |
| 23.        |               |    |                      |   |
| 24.        |               |    |                      |   |
| 25.        |               |    |                      |   |
| 26.        |               |    |                      |   |
| 27.        |               |    |                      |   |
| 28.        |               |    |                      |   |
| 29.        |               |    |                      |   |
| 30.        |               |    |                      |   |

1LCB  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDPL3

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004  
 Lab Code: PDP Case No.: 27986 SAS No.: \_\_\_\_\_ SDG No.: EDPK9  
 Lab Sample ID: 6004.006 Date Received: 04/19/00  
 Lab File ID: H0932 Date Extracted: 04/23/00  
 Sample Volume: 1000 (mL) Date Analyzed: 05/05/00  
 Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0  
 Injection Volume: 1.0 (uL)

| CAS NO.  | COMPOUND                     | CONCENTRATION<br>(ug/L) | Q |
|----------|------------------------------|-------------------------|---|
| 108-95-2 | Phenol                       | 5                       | U |
| 111-44-4 | bis(2-Chloroethyl) ether     | 5                       | U |
| 95-57-8  | 2-Chlorophenol               | 5                       | U |
| 95-48-7  | 2-Methylphenol               | 5                       | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 5                       | U |
| 106-44-5 | 4-Methylphenol               | 5                       | U |
| 621-64-7 | N-Nicroso-di-n-propylamine   | 5                       | U |
| 67-72-1  | Hexachloroethane             | 5                       | U |
| 98-95-3  | Nitrobenzene                 | 5                       | U |
| 78-59-1  | Isophorone                   | 5                       | U |
| 88-75-5  | 2-Nitrophenol                | 5                       | U |
| 105-67-9 | 2,4-Dimethylphenol           | 5                       | U |
| 111-91-1 | bis(2-Chloroethoxy)methane   | 5                       | U |
| 120-83-2 | 2,4-Dichlorophenol           | 5                       | U |
| 91-20-3  | Naphthalene                  | 5                       | U |
| 106-47-8 | 4-Chloroaniline              | 5                       | U |
| 87-68-3  | Hexachlorobutadiene          | 5                       | U |
| 59-50-7  | 4-Chloro-3-methylphenol      | 5                       | U |
| 91-57-6  | 2-Methylnaphthalene          | 5                       | U |
| 77-47-4  | Hexachlorocyclopentadiene    | 5                       | U |
| 88-06-2  | 2,4,6-Trichlorophenol        | 5                       | U |
| 95-95-4  | 2,4,5-Trichlorophenol        | 20                      | U |
| 91-58-7  | 2-Chloronaphthalane          | 5                       | U |
| 88-74-4  | 2-Nitroaniline               | 20                      | U |
| 131-11-3 | Dimethylphthalate            | 5                       | U |
| 208-96-8 | Acenaphthylene               | 5                       | U |
| 606-20-2 | 2,6-Dinitrotoluene           | 5                       | U |
| 99-09-2  | 3-Nitroaniline               | 20                      | U |
| 83-32-9  | Acenaphthene                 | 5                       | U |

1LCC  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDPL3

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: EDPK9

Lab Sample ID: 6004.006

Date Received: 04/19/00

Lab File ID: H0932

Date Extracted: 04/23/00

Sample Volume: 1000 (mL)

Date Analyzed: 05/05/00

Concentrated Extract Volume: 1000 (uL)

Dilution Factor: 1.0

Injection Volume: 1 (uL)

| CAS NO.   | COMPOUND                   | CONCENTRATION<br>(ug/L) | Q |
|-----------|----------------------------|-------------------------|---|
| 51-28-5   | 2,4-Dinitrophenol          | 20                      | U |
| 100-02-7  | 4-Nitrophenol              | 20                      | U |
| 132-64-9  | Dibenzofuran               | 5                       | U |
| 121-14-2  | 2,4-Dinitrotoluene         | 5                       | U |
| 84-66-2   | Diethylphthalate           | 5                       | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 5                       | U |
| 86-73-7   | Fluorene                   | 5                       | U |
| 100-01-6  | 4-Nitroaniline             | 20                      | U |
| 534-52-1  | 4,6-Dinitro-2-methylphenol | 20                      | U |
| 86-30-6   | N-Nitrosodiphenylamine (1) | 5                       | U |
| 101-55-3  | 4-Bromophenyl-phenylether  | 5                       | U |
| 118-74-1  | Hexachlorobenzene          | 5                       | U |
| 87-86-5   | Pentachlorophenol          | 20                      | U |
| 85-01-8   | Phenanthrene               | 5                       | U |
| 120-12-7  | Anthracene                 | 5                       | U |
| 84-74-2   | Di-n-butylphthalate        | 5                       | U |
| 206-44-0  | Fluoranthene               | 5                       | U |
| 129-00-0  | Pyrene                     | 5                       | U |
| 85-68-7   | Butylbenzylphthalate       | 5                       | U |
| 91-94-1   | 3,3'-Dichlorobenzidine     | 5                       | U |
| 56-55-3   | Benzo(a)anthracene         | 5                       | U |
| 218-01-9  | Chrysene                   | 5                       | U |
| 117-81-7  | bis(2-Ethylhexyl)phthalate | 5                       | U |
| 117-84-0  | Di-n-octylphthalate        | 5                       | U |
| 205-99-2  | Benzo(b)fluoranthene       | 5                       | U |
| 207-08-9  | Benzo(k)fluoranthene       | 5                       | U |
| 50-32-8   | Benzo(a)pyrene             | 5                       | U |
| 193-39-5  | Indeno(1,2,3-cd)Pyrene     | 5                       | U |
| 53-70-3   | Dibenz(a,h)anthracene      | 5                       | U |
| 191-24-2  | Benzo(g,h,i)perylene       | 5                       | U |

(1) - Cannot be separated from Diphenylamine

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EDPL3

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

Lab Code: PDP Case No.: 27986 SAS No.: \_\_\_\_\_ SDG No.: EDPK9

Lab Sample ID: 6004.006 Date Received: 04/19/00

Lab File ID: H0932 Date Extracted: 04/23/00

Sample Volume: 1000 (mL) Date Analyzed: 05/05/00

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

Number TICs found: 0

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC.<br>(ug/L) | Q |
|------------|---------------|----|----------------------|---|
| 1.         |               |    |                      |   |
| 2.         |               |    |                      |   |
| 3.         |               |    |                      |   |
| 4.         |               |    |                      |   |
| 5.         |               |    |                      |   |
| 6.         |               |    |                      |   |
| 7.         |               |    |                      |   |
| 8.         |               |    |                      |   |
| 9.         |               |    |                      |   |
| 10.        |               |    |                      |   |
| 11.        |               |    |                      |   |
| 12.        |               |    |                      |   |
| 13.        |               |    |                      |   |
| 14.        |               |    |                      |   |
| 15.        |               |    |                      |   |
| 16.        |               |    |                      |   |
| 17.        |               |    |                      |   |
| 18.        |               |    |                      |   |
| 19.        |               |    |                      |   |
| 20.        |               |    |                      |   |
| 21.        |               |    |                      |   |
| 22.        |               |    |                      |   |
| 23.        |               |    |                      |   |
| 24.        |               |    |                      |   |
| 25.        |               |    |                      |   |
| 26.        |               |    |                      |   |
| 27.        |               |    |                      |   |
| 28.        |               |    |                      |   |
| 29.        |               |    |                      |   |
| 30.        |               |    |                      |   |

1LCB  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDPL4

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: EDPK9

Lab Sample ID: 6004.007

Date Received: 04/19/00

Lab File ID: H0933

Date Extracted: 04/23/00

Sample Volume: 1000 (mL)

Date Analyzed: 05/05/00

Concentrated Extract Volume: 1000 (uL)

Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

| CAS NO.  | COMPOUND                     | CONCENTRATION<br>(ug/L) | Q |
|----------|------------------------------|-------------------------|---|
| 108-95-2 | Phenol                       | 5                       | U |
| 111-44-4 | bis(2-Chloroethyl) ether     | 5                       | U |
| 95-57-8  | 2-Chlorophenol               | 5                       | U |
| 95-48-7  | 2-Methylphenol               | 5                       | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 5                       | U |
| 106-44-5 | 4-Methylphenol               | 5                       | U |
| 621-64-7 | N-Nitroso-di-n-propylamine   | 5                       | U |
| 67-72-1  | Hexachloroethane             | 5                       | U |
| 98-95-3  | Nitrobenzene                 | 5                       | U |
| 78-59-1  | Isophorone                   | 5                       | U |
| 88-75-5  | 2-Nitrophenol                | 5                       | U |
| 105-67-9 | 2,4-Dimethylphenol           | 5                       | U |
| 111-91-1 | bis(2-Chloroethoxy)methane   | 5                       | U |
| 120-83-2 | 2,4-Dichlorophenol           | 5                       | U |
| 91-20-3  | Naphthalene                  | 5                       | U |
| 106-47-8 | 4-Chloroaniline              | 5                       | U |
| 87-68-3  | Hexachlorobutadiene          | 5                       | U |
| 59-50-7  | 4-Chloro-3-methylphenol      | 5                       | U |
| 91-57-6  | 2-Methylnaphthalene          | 5                       | U |
| 77-47-4  | Hexachlorocyclopentadiene    | 5                       | U |
| 88-06-2  | 2,4,6-Trichlorophenol        | 5                       | U |
| 95-95-4  | 2,4,5-Trichlorophenol        | 20                      | U |
| 91-58-7  | 2-Chloronaphthalene          | 5                       | U |
| 88-74-4  | 2-Nitroaniline               | 20                      | U |
| 131-11-3 | Dimethylphthalate            | 5                       | U |
| 208-96-8 | Acenaphthylene               | 5                       | U |
| 606-20-2 | 2,6-Dinitrotoluene           | 5                       | U |
| 99-09-2  | 3-Nitroaniline               | 20                      | U |
| 83-32-9  | Acenaphthene                 | 5                       | U |

000353

EDPL4

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004

Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: EDPK9

Lab Sample ID: 6004.007      Date Received: 04/19/00

Lab File ID: H0933      Date Extracted: 04/23/00

Sample Volume: 1000 (mL)      Date Analyzed: 05/05/00

Concentrated Extract Volume: 1000 (uL)      Dilution Factor: 1.0

Injection Volume: 1 (uL)

| CAS NO.   | COMPOUND                   | CONCENTRATION<br>(ug/L) | Q |
|-----------|----------------------------|-------------------------|---|
| 51-28-5   | 2,4-Dinitrophenol          | 20                      | U |
| 100-02-7  | 4-Nitrophenol              | 20                      | U |
| 132-64-9  | Dibenzofuran               | 5                       | U |
| 121-14-2  | 2,4-Dinitrotoluene         | 5                       | U |
| 84-66-2   | Diethylphthalate           | 5                       | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 5                       | U |
| 86-73-7   | Fluorene                   | 5                       | U |
| 100-01-6  | 4-Nitroaniline             | 20                      | U |
| 534-52-1  | 4,6-Dinitro-2-methylphenol | 20                      | U |
| 86-30-6   | N-Nitrosodiphenylamine (1) | 5                       | U |
| 101-55-3  | 4-Bromophenyl-phenylether  | 5                       | U |
| 118-74-1  | Hexachlorobenzene          | 5                       | U |
| 87-86-5   | Pentachlorophenol          | 20                      | U |
| 85-01-8   | Phenanthrene               | 5                       | U |
| 120-12-7  | Anthracene                 | 5                       | U |
| 84-74-2   | Di-n-butylphthalate        | 5                       | U |
| 206-44-0  | Fluoranthene               | 5                       | U |
| 129-00-0  | Pyrene                     | 5                       | U |
| 85-68-7   | Butylbenzylphthalate       | 5                       | U |
| 91-94-1   | 3,3'-Dichlorobenzidine     | 5                       | U |
| 56-55-3   | Benzo (a) anthracene       | 5                       | U |
| 218-01-9  | Chrysene                   | 5                       | U |
| 117-81-7  | bis(2-Ethylhexyl)phthalate | 5                       | U |
| 117-84-0  | Di-n-octylphthalate        | 5                       | U |
| 205-99-2  | Benzo (b) fluoranthene     | 5                       | U |
| 207-08-9  | Benzo (k) fluoranthene     | 5                       | U |
| 50-32-8   | Benzo (a) pyrene           | 5                       | U |
| 193-39-5  | Indeno (1,2,3-cd) Pyrene   | 5                       | U |
| 53-70-3   | Dibenz (a,h) anthracene    | 5                       | U |
| 191-24-2  | Benzo (g,h,i) perylene     | 5                       | U |

(1) - Cannot be separated from Diphenylamine

1LCF  
LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EDPL4

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

Lab Code: PDP Case No.: 27986 SAS No.: \_\_\_\_\_ SDG No.: EDPK9

Lab Sample ID: 6004.007 Date Received: 04/19/00

Lab File ID: H0933 Date Extracted: 04/23/00

Sample Volume: 1000 (mL) Date Analyzed: 05/05/00

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

Number TICs found: 0

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC.<br>(ug/L) | Q |
|------------|---------------|----|----------------------|---|
| 1.         |               |    |                      |   |
| 2.         |               |    |                      |   |
| 3.         |               |    |                      |   |
| 4.         |               |    |                      |   |
| 5.         |               |    |                      |   |
| 6.         |               |    |                      |   |
| 7.         |               |    |                      |   |
| 8.         |               |    |                      |   |
| 9.         |               |    |                      |   |
| 10.        |               |    |                      |   |
| 11.        |               |    |                      |   |
| 12.        |               |    |                      |   |
| 13.        |               |    |                      |   |
| 14.        |               |    |                      |   |
| 15.        |               |    |                      |   |
| 16.        |               |    |                      |   |
| 17.        |               |    |                      |   |
| 18.        |               |    |                      |   |
| 19.        |               |    |                      |   |
| 20.        |               |    |                      |   |
| 21.        |               |    |                      |   |
| 22.        |               |    |                      |   |
| 23.        |               |    |                      |   |
| 24.        |               |    |                      |   |
| 25.        |               |    |                      |   |
| 26.        |               |    |                      |   |
| 27.        |               |    |                      |   |
| 28.        |               |    |                      |   |
| 29.        |               |    |                      |   |
| 30.        |               |    |                      |   |

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

ILCB

EPA SAMPLE NO.

EDPL5

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004

Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: EDPK9

Lab Sample ID: 6004.008      Date Received: 04/19/00

Lab File ID: H0937      Date Extracted: 04/23/00

Sample Volume: 1000 (mL)      Date Analyzed: 05/05/00

Concentrated Extract Volume: 1000 (uL)      Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

| CAS NO.  | COMPOUND                     | CONCENTRATION<br>(ug/L) | Q |
|----------|------------------------------|-------------------------|---|
| 108-95-2 | Phenol                       | 5                       | U |
| 111-44-4 | bis(2-Chloroethyl) ether     | 5                       | U |
| 95-57-8  | 2-Chlorophenol               | 5                       | U |
| 95-48-7  | 2-Methylphenol               | 5                       | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 5                       | U |
| 106-44-5 | 4-Methylphenol               | 5                       | U |
| 621-64-7 | N-Nitroso-di-n-propylamine   | 5                       | U |
| 67-72-1  | Hexachloroethane             | 5                       | U |
| 98-95-3  | Nitrobenzene                 | 5                       | U |
| 78-59-1  | Isophorone                   | 5                       | U |
| 88-75-5  | 2-Nitrophenol                | 5                       | U |
| 105-67-9 | 2,4-Dimethylphenol           | 5                       | U |
| 111-91-1 | bis(2-Chloroethoxy) methane  | 5                       | U |
| 120-83-2 | 2,4-Dichlorophenol           | 5                       | U |
| 91-20-3  | Naphthalene                  | 5                       | U |
| 106-47-8 | 4-Chloroaniline              | 5                       | U |
| 87-68-3  | Hexachlorobutadiene          | 5                       | U |
| 59-50-7  | 4-Chloro-3-methylphenol      | 5                       | U |
| 91-57-6  | 2-Methylnaphthalene          | 5                       | U |
| 77-47-4  | Hexachlorocyclopentadiene    | 5                       | U |
| 88-06-2  | 2,4,6-Trichlorophenol        | 5                       | U |
| 95-95-4  | 2,4,5-Trichlorophenol        | 20                      | U |
| 91-58-7  | 2-Chloronaphthalane          | 5                       | U |
| 88-74-4  | 2-Nitroaniline               | 20                      | U |
| 131-11-3 | Dimethylphthalate            | 5                       | U |
| 208-96-8 | Acenaphthylene               | 5                       | U |
| 606-20-2 | 2,6-Dinitrotoluene           | 5                       | U |
| 99-09-2  | 3-Nitroaniline               | 20                      | U |
| 83-32-9  | Acenaphthene                 | 5                       | U |

1LCC  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDPL5

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004  
 Lab Code: PDP Case No.: 27986 SAS No.: \_\_\_\_\_ SDG No.: EDPK9  
 Lab Sample ID: 6004.008 Date Received: 04/19/00  
 Lab File ID: H0937 Date Extracted: 04/23/00  
 Sample Volume: 1000 (mL) Date Analyzed: 05/05/00  
 Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0  
 Injection Volume: 1 (uL)

| CAS NO.   | COMPOUND                   | CONCENTRATION<br>(ug/L) | Q |
|-----------|----------------------------|-------------------------|---|
| 51-28-5   | 2,4-Dinitrophenol          | 20                      | U |
| 100-02-7  | 4-Nitrophenol              | 20                      | U |
| 132-64-9  | Dibenzofuran               | 5                       | U |
| 121-14-2  | 2,4-Dinitrotoluene         | 5                       | U |
| 84-66-2   | Diethylphthalate           | 5                       | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 5                       | U |
| 86-73-7   | Fluorene                   | 5                       | U |
| 100-01-6  | 4-Nitroaniline             | 20                      | U |
| 534-52-1  | 4,6-Dinitro-2-methylphenol | 20                      | U |
| 86-30-6   | N-Nitrosodiphenylamine (1) | 5                       | U |
| 101-55-3  | 4-Bromophenyl-phenylether  | 5                       | U |
| 118-74-1  | Hexachlorobenzene          | 5                       | U |
| 87-86-5   | Pentachlorophenol          | 20                      | U |
| 85-01-8   | Phenanthrene               | 5                       | U |
| 120-12-7  | Anthracene                 | 5                       | U |
| 84-74-2   | Di-n-butylphthalate        | 5                       | U |
| 206-44-0  | Fluoranthene               | 5                       | U |
| 129-00-0  | Pyrene                     | 5                       | U |
| 85-68-7   | Butylbenzylphthalate       | 5                       | U |
| 91-94-1   | 3,3'-Dichlorobenzidine     | 5                       | U |
| 56-55-3   | Benzo(a)anthracene         | 5                       | U |
| 218-01-9  | Chrysene                   | 5                       | U |
| 117-81-7  | bis(2-Ethylhexyl)phthalate | 5                       | U |
| 117-84-0  | Di-n-octylphthalate        | 5                       | U |
| 205-99-2  | Benzo(b)fluoranthene       | 5                       | U |
| 207-08-9  | Benzo(k)fluoranthene       | 5                       | U |
| 50-32-8   | Benzo(a)pyrene             | 5                       | U |
| 193-39-5  | Indeno(1,2,3-cd)Pyrene     | 5                       | U |
| 53-70-3   | Dibenz(a,h)anthracene      | 5                       | U |
| 191-24-2  | Benzo(g,h,i)perylene       | 5                       | U |

(1) - Cannot be separated from Diphenylamine

TENTATIVELY IDENTIFIED COMPOUNDS

EDPL5

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

Lab Code: PDP Case No.: 27986 SAS No.: \_\_\_\_\_ SDG No.: EDPK9

Lab Sample ID: 6004.008 Date Received: 04/19/00

Lab File ID: H0937 Date Extracted: 04/23/00

Sample Volume: 1000 (mL) Date Analyzed: 05/05/00

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

Number TICs found: 0

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC.<br>(ug/L) | Q |
|------------|---------------|----|----------------------|---|
| 1.         |               |    |                      |   |
| 2.         |               |    |                      |   |
| 3.         |               |    |                      |   |
| 4.         |               |    |                      |   |
| 5.         |               |    |                      |   |
| 6.         |               |    |                      |   |
| 7.         |               |    |                      |   |
| 8.         |               |    |                      |   |
| 9.         |               |    |                      |   |
| 10.        |               |    |                      |   |
| 11.        |               |    |                      |   |
| 12.        |               |    |                      |   |
| 13.        |               |    |                      |   |
| 14.        |               |    |                      |   |
| 15.        |               |    |                      |   |
| 16.        |               |    |                      |   |
| 17.        |               |    |                      |   |
| 18.        |               |    |                      |   |
| 19.        |               |    |                      |   |
| 20.        |               |    |                      |   |
| 21.        |               |    |                      |   |
| 22.        |               |    |                      |   |
| 23.        |               |    |                      |   |
| 24.        |               |    |                      |   |
| 25.        |               |    |                      |   |
| 26.        |               |    |                      |   |
| 27.        |               |    |                      |   |
| 28.        |               |    |                      |   |
| 29.        |               |    |                      |   |
| 30.        |               |    |                      |   |

1LCB  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDPL6

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004  
 Lab Code: PDP Case No.: 27986 SAS No.: \_\_\_\_\_ SDG No.: EDPK9  
 Lab Sample ID: 6004.009 Date Received: 04/19/00  
 Lab File ID: H0938 Date Extracted: 04/23/00  
 Sample Volume: 1000 (mL) Date Analyzed: 05/05/00  
 Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0  
 Injection Volume: 1.0 (uL)

| CAS NO.  | COMPOUND                     | CONCENTRATION<br>(ug/L) | Q |
|----------|------------------------------|-------------------------|---|
| 108-95-2 | Phenol                       | 5                       | U |
| 111-44-4 | bis(2-Chloroethyl) ether     | 5                       | U |
| 95-57-8  | 2-Chlorophenol               | 5                       | U |
| 95-48-7  | 2-Methylphenol               | 5                       | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 5                       | U |
| 106-44-5 | 4-Methylphenol               | 5                       | U |
| 621-64-7 | N-Nitroso-di-n-propylamine   | 5                       | U |
| 67-72-1  | Hexachloroethane             | 5                       | U |
| 98-95-3  | Nitrobenzene                 | 5                       | U |
| 78-59-1  | Isophorone                   | 5                       | U |
| 88-75-5  | 2-Nitrophenol                | 5                       | U |
| 105-67-9 | 2,4-Dimethylphenol           | 5                       | U |
| 111-91-1 | bis(2-Chloroethoxy)methane   | 5                       | U |
| 120-83-2 | 2,4-Dichlorophenol           | 5                       | U |
| 91-20-3  | Naphthalene                  | 5                       | U |
| 106-47-8 | 4-Chloroaniline              | 5                       | U |
| 87-68-3  | Hexachlorobutadiene          | 5                       | U |
| 59-50-7  | 4-Chloro-3-methylphenol      | 5                       | U |
| 91-57-6  | 2-Methylnaphthalene          | 5                       | U |
| 77-47-4  | Hexachlorocyclopentadiene    | 5                       | U |
| 88-06-2  | 2,4,6-Trichlorophenol        | 5                       | U |
| 95-95-4  | 2,4,5-Trichlorophenol        | 20                      | U |
| 91-58-7  | 2-Chloronaphthalene          | 5                       | U |
| 88-74-4  | 2-Nitroaniline               | 20                      | U |
| 131-11-3 | Dimethylphthalate            | 5                       | U |
| 208-96-8 | Acenaphthylene               | 5                       | U |
| 606-20-2 | 2,6-Dinitrotoluene           | 5                       | U |
| 99-09-2  | 3-Nitroaniline               | 20                      | U |
| 83-32-9  | Acenaphthene                 | 5                       | U |

EDPL6

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: EDPK9

Lab Sample ID: 6004.009

Date Received: 04/19/00

Lab File ID: H0938

Date Extracted: 04/23/00

Sample Volume: 1000 (mL)

Date Analyzed: 05/05/00

Concentrated Extract Volume: 1000 (uL)

Dilution Factor: 1.0

Injection Volume: 1 (uL)

| CAS NO.   | COMPOUND                   | CONCENTRATION (ug/L) | Q |
|-----------|----------------------------|----------------------|---|
| 51-28-5   | 2,4-Dinitrophenol          | 20                   | U |
| 100-02-7  | 4-Nitrophenol              | 20                   | U |
| 132-64-9  | Dibenzofuran               | 5                    | U |
| 121-14-2  | 2,4-Dinitrotoluene         | 5                    | U |
| 84-66-2   | Diethylphthalate           | 5                    | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 5                    | U |
| 86-73-7   | Fluorene                   | 5                    | U |
| 100-01-6  | 4-Nitroaniline             | 20                   | U |
| 534-52-1  | 4,6-Dinitro-2-methylphenol | 20                   | U |
| 86-30-6   | N-Nitrosodiphenylamine (1) | 5                    | U |
| 101-55-3  | 4-Bromophenyl-phenylether  | 5                    | U |
| 118-74-1  | Hexachlorobenzene          | 5                    | U |
| 87-86-5   | Pentachlorophenol          | 20                   | U |
| 85-01-8   | Phenanthrene               | 5                    | U |
| 120-12-7  | Anthracene                 | 5                    | U |
| 84-74-2   | Di-n-butylphthalate        | 5                    | U |
| 206-44-0  | Fluoranthene               | 5                    | U |
| 129-00-0  | Pyrene                     | 5                    | U |
| 85-68-7   | Butylbenzylphthalate       | 5                    | U |
| 91-94-1   | 3,3'-Dichlorobenzidine     | 5                    | U |
| 56-55-3   | Benzo(a)anthracene         | 5                    | U |
| 218-01-9  | Chrysene                   | 5                    | U |
| 117-81-7  | bis(2-Ethylhexyl)phthalate | 5                    | U |
| 117-84-0  | Di-n-octylphthalate        | 5                    | U |
| 205-99-2  | Benzo(b)fluoranthene       | 5                    | U |
| 207-08-9  | Benzo(k)fluoranthene       | 5                    | U |
| 50-32-8   | Benzo(a)pyrene             | 5                    | U |
| 193-39-5  | Indeno(1,2,3-cd)Pyrene     | 5                    | U |
| 53-70-3   | Dibenz(a,h)anthracene      | 5                    | U |
| 191-24-2  | Benzo(g,h,i)perylene       | 5                    | U |

(1) - Cannot be separated from Diphenylamine

1LCF  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EDPL6

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004

Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: EDPK9

Lab Sample ID: 6004.009      Date Received: 04/19/00

Lab File ID: H0938      Date Extracted: 04/23/00

Sample Volume: 1000 (mL)      Date Analyzed: 05/05/00

Concentrated Extract Volume: 1000 (uL)      Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

Number TICs found:      0

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC.<br>(ug/L) | Q |
|------------|---------------|----|----------------------|---|
| 1.         |               |    |                      |   |
| 2.         |               |    |                      |   |
| 3.         |               |    |                      |   |
| 4.         |               |    |                      |   |
| 5.         |               |    |                      |   |
| 6.         |               |    |                      |   |
| 7.         |               |    |                      |   |
| 8.         |               |    |                      |   |
| 9.         |               |    |                      |   |
| 10.        |               |    |                      |   |
| 11.        |               |    |                      |   |
| 12.        |               |    |                      |   |
| 13.        |               |    |                      |   |
| 14.        |               |    |                      |   |
| 15.        |               |    |                      |   |
| 16.        |               |    |                      |   |
| 17.        |               |    |                      |   |
| 18.        |               |    |                      |   |
| 19.        |               |    |                      |   |
| 20.        |               |    |                      |   |
| 21.        |               |    |                      |   |
| 22.        |               |    |                      |   |
| 23.        |               |    |                      |   |
| 24.        |               |    |                      |   |
| 25.        |               |    |                      |   |
| 26.        |               |    |                      |   |
| 27.        |               |    |                      |   |
| 28.        |               |    |                      |   |
| 29.        |               |    |                      |   |
| 30.        |               |    |                      |   |

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

ILCB

EPA SAMPLE NO.

EDPL7

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: EDPK9

Lab Sample ID: 6004.010

Date Received: 04/19/00

Lab File ID: H0939

Date Extracted: 04/23/00

Sample Volume: 1000 (mL)

Date Analyzed: 05/05/00

Concentrated Extract Volume: 1000 (uL)

Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

| CAS NO.  | COMPOUND                     | CONCENTRATION<br>(ug/L) | Q |
|----------|------------------------------|-------------------------|---|
| 108-95-2 | Phenol                       | 5                       | U |
| 111-44-4 | bis(2-Chloroethyl) ether     | 5                       | U |
| 95-57-8  | 2-Chlorophenol               | 5                       | U |
| 95-48-7  | 2-Methylphenol               | 5                       | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 5                       | U |
| 106-44-5 | 4-Methylphenol               | 5                       | U |
| 621-64-7 | N-Nitroso-di-n-propylamine   | 5                       | U |
| 67-72-1  | Hexachloroethane             | 5                       | U |
| 98-95-3  | Nitrobenzene                 | 5                       | U |
| 78-59-1  | Isophorone                   | 5                       | U |
| 88-75-5  | 2-Nitrophenol                | 5                       | U |
| 105-67-9 | 2,4-Dimethylphenol           | 5                       | U |
| 111-91-1 | bis(2-Chloroethoxy)methane   | 5                       | U |
| 120-83-2 | 2,4-Dichlorophenol           | 5                       | U |
| 91-20-3  | Naphthalene                  | 5                       | U |
| 106-47-8 | 4-Chloroaniline              | 5                       | U |
| 87-68-3  | Hexachlorobutadiene          | 5                       | U |
| 59-50-7  | 4-Chloro-3-methylphenol      | 5                       | U |
| 91-57-6  | 2-Methylnaphthalene          | 5                       | U |
| 77-47-4  | Hexachlorocyclopentadiene    | 5                       | U |
| 88-06-2  | 2,4,6-Trichlorophenol        | 5                       | U |
| 95-95-4  | 2,4,5-Trichlorophenol        | 20                      | U |
| 91-58-7  | 2-Chloronaphthalene          | 5                       | U |
| 88-74-4  | 2-Nitroaniline               | 20                      | U |
| 131-11-3 | Dimethylphthalate            | 5                       | U |
| 208-96-8 | Acenaphthylene               | 5                       | U |
| 606-20-2 | 2,6-Dinitrotoluene           | 5                       | U |
| 99-09-2  | 3-Nitroaniline               | 20                      | U |
| 83-32-9  | Acenaphthene                 | 5                       | U |

000396

1LCC  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDPL7

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004  
 Lab Code: PDP Case No.: 27986 SAS No.: \_\_\_\_\_ SDG No.: EDPK9  
 Lab Sample ID: 6004.010 Date Received: 04/19/00  
 Lab File ID: H0939 Date Extracted: 04/23/00  
 Sample Volume: 1000 (mL) Date Analyzed: 05/05/00  
 Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0  
 Injection Volume: 1 (uL)

| CAS NO.   | COMPOUND                   | CONCENTRATION<br>(ug/L) | Q |
|-----------|----------------------------|-------------------------|---|
| 51-28-5   | 2,4-Dinitrophenol          | 20                      | U |
| 100-02-7  | 4-Nitrophenol              | 20                      | U |
| 132-64-9  | Dibenzofuran               | 5                       | U |
| 121-14-2  | 2,4-Dinitrotoluene         | 5                       | U |
| 84-66-2   | Diethylphthalate           | 5                       | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 5                       | U |
| 86-73-7   | Fluorene                   | 5                       | U |
| 100-01-6  | 4-Nitroaniline             | 20                      | U |
| 534-52-1  | 4,6-Dinitro-2-methylphenol | 20                      | U |
| 86-30-6   | N-Nitrosodiphenylamine (1) | 5                       | U |
| 101-55-3  | 4-Bromophenyl-phenylether  | 5                       | U |
| 118-74-1  | Hexachlorobenzene          | 5                       | U |
| 87-86-5   | Pentachlorophenol          | 20                      | U |
| 85-01-8   | Phenanthrene               | 5                       | U |
| 120-12-7  | Anthracene                 | 5                       | U |
| 84-74-2   | Di-n-butylphthalate        | 5                       | U |
| 206-44-0  | Fluoranthene               | 5                       | U |
| 129-00-0  | Pyrene                     | 5                       | U |
| 85-68-7   | Butylbenzylphthalate       | 5                       | U |
| 91-94-1   | 3,3'-Dichlorobenzidine     | 5                       | U |
| 56-55-3   | Benzo(a)anthracene         | 5                       | U |
| 218-01-9  | Chrysene                   | 5                       | U |
| 117-81-7  | bis(2-Ethylhexyl)phthalate | 5                       | U |
| 117-84-0  | Di-n-octylphthalate        | 5                       | U |
| 205-99-2  | Benzo(b)fluoranthene       | 5                       | U |
| 207-08-9  | Benzo(k)fluoranthene       | 5                       | U |
| 50-32-8   | Benzo(a)pyrene             | 5                       | U |
| 193-39-5  | Indeno(1,2,3-cd)Pyrene     | 5                       | U |
| 53-70-3   | Dibenz(a,h)anthracene      | 5                       | U |
| 191-24-2  | Benzo(g,h,i)perylene       | 5                       | U |

(1) - Cannot be separated from Diphenylamine

1LCF  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EDPL7

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004

Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: EDPK9

Lab Sample ID: 6004.010      Date Received: 04/19/00

Lab File ID: H0939      Date Extracted: 04/23/00

Sample Volume: 1000 (mL)      Date Analyzed: 05/05/00

Concentrated Extract Volume: 1000 (uL)      Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

Number TICs found:      0

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC.<br>(ug/L) | Q |
|------------|---------------|----|----------------------|---|
| 1.         |               |    |                      |   |
| 2.         |               |    |                      |   |
| 3.         |               |    |                      |   |
| 4.         |               |    |                      |   |
| 5.         |               |    |                      |   |
| 6.         |               |    |                      |   |
| 7.         |               |    |                      |   |
| 8.         |               |    |                      |   |
| 9.         |               |    |                      |   |
| 10.        |               |    |                      |   |
| 11.        |               |    |                      |   |
| 12.        |               |    |                      |   |
| 13.        |               |    |                      |   |
| 14.        |               |    |                      |   |
| 15.        |               |    |                      |   |
| 16.        |               |    |                      |   |
| 17.        |               |    |                      |   |
| 18.        |               |    |                      |   |
| 19.        |               |    |                      |   |
| 20.        |               |    |                      |   |
| 21.        |               |    |                      |   |
| 22.        |               |    |                      |   |
| 23.        |               |    |                      |   |
| 24.        |               |    |                      |   |
| 25.        |               |    |                      |   |
| 26.        |               |    |                      |   |
| 27.        |               |    |                      |   |
| 28.        |               |    |                      |   |
| 29.        |               |    |                      |   |
| 30.        |               |    |                      |   |

1LCB  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDPL8

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: EDPK9

Lab Sample ID: 6004.011

Date Received: 04/19/00

Lab File ID: H0940

Date Extracted: 04/23/00

Sample Volume: 1000 (mL)

Date Analyzed: 05/05/00

Concentrated Extract Volume: 1000 (uL)

Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

| CAS NO.  | COMPOUND                     | CONCENTRATION<br>(ug/L) | Q |
|----------|------------------------------|-------------------------|---|
| 108-95-2 | Phenol                       | 5                       | U |
| 111-44-4 | bis(2-Chloroethyl) ether     | 5                       | U |
| 95-57-8  | 2-Chlorophenol               | 5                       | U |
| 95-48-7  | 2-Methylphenol               | 5                       | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 5                       | U |
| 106-44-5 | 4-Methylphenol               | 5                       | U |
| 621-64-7 | N-Nitroso-di-n-propylamine   | 5                       | U |
| 67-72-1  | Hexachloroethane             | 5                       | U |
| 98-95-3  | Nitrobenzene                 | 5                       | U |
| 78-59-1  | Isophorone                   | 5                       | U |
| 88-75-5  | 2-Nitrophenol                | 5                       | U |
| 105-67-9 | 2,4-Dimethylphenol           | 5                       | U |
| 111-91-1 | bis(2-Chloroethoxy)methane   | 5                       | U |
| 120-83-2 | 2,4-Dichlorophenol           | 5                       | U |
| 91-20-3  | Naphthalene                  | 5                       | U |
| 106-47-8 | 4-Chloroaniline              | 5                       | U |
| 87-68-3  | Hexachlorobutadiene          | 5                       | U |
| 59-50-7  | 4-Chloro-3-methylphenol      | 5                       | U |
| 91-57-6  | 2-Methylnaphthalene          | 5                       | U |
| 77-47-4  | Hexachlorocyclopentadiene    | 5                       | U |
| 88-06-2  | 2,4,6-Trichlorophenol        | 5                       | U |
| 95-95-4  | 2,4,5-Trichlorophenol        | 20                      | U |
| 91-58-7  | 2-Chloronaphthalene          | 5                       | U |
| 88-74-4  | 2-Nitroaniline               | 20                      | U |
| 131-11-3 | Dimethylphthalate            | 5                       | U |
| 208-96-8 | Acenaphthylene               | 5                       | U |
| 606-20-2 | 2,6-Dinitrotoluene           | 5                       | U |
| 99-09-2  | 3-Nitroaniline               | 20                      | U |
| 83-32-9  | Acenaphthene                 | 5                       | U |

1LCC  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDPL8

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004  
 Lab Code: PDP Case No.: 27986 SAS No.: \_\_\_\_\_ SDG No.: EDPK9  
 Lab Sample ID: 6004.011 Date Received: 04/19/00  
 Lab File ID: H0940 Date Extracted: 04/23/00  
 Sample Volume: 1000 (mL) Date Analyzed: 05/05/00  
 Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0  
 Injection Volume: 1 (uL)

| CAS NO.   | COMPOUND                   | CONCENTRATION (ug/L) | Q |
|-----------|----------------------------|----------------------|---|
| 51-28-5   | 2,4-Dinitrophenol          | 20                   | U |
| 100-02-7  | 4-Nitrophenol              | 20                   | U |
| 132-64-9  | Dibenzofuran               | 5                    | U |
| 121-14-2  | 2,4-Dinitrotoluene         | 5                    | U |
| 84-66-2   | Diethylphthalate           | 5                    | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 5                    | U |
| 86-73-7   | Fluorene                   | 5                    | U |
| 100-01-6  | 4-Nitroaniline             | 20                   | U |
| 534-52-1  | 4,6-Dinitro-2-methylphenol | 20                   | U |
| 86-30-6   | N-Nitrosodiphenylamine (1) | 5                    | U |
| 101-55-3  | 4-Bromophenyl-phenylether  | 5                    | U |
| 118-74-1  | Hexachlorobenzene          | 5                    | U |
| 87-86-5   | Pentachlorophenol          | 20                   | U |
| 85-01-8   | Phenanthrene               | 5                    | U |
| 120-12-7  | Anthracene                 | 5                    | U |
| 84-74-2   | Di-n-butylphthalate        | 5                    | U |
| 206-44-0  | Fluoranthene               | 5                    | U |
| 129-00-0  | Pyrene                     | 5                    | U |
| 85-68-7   | Butylbenzylphthalate       | 5                    | U |
| 91-94-1   | 3,3'-Dichlorobenzidine     | 5                    | U |
| 56-55-3   | Benzo(a)anthracene         | 5                    | U |
| 218-01-9  | Chrysene                   | 5                    | U |
| 117-81-7  | bis(2-Ethylhexyl)phthalate | 5                    | U |
| 117-84-0  | Di-n-octylphthalate        | 5                    | U |
| 205-99-2  | Benzo(b)fluoranthene       | 5                    | U |
| 207-08-9  | Benzo(k)fluoranthene       | 5                    | U |
| 50-32-8   | Benzo(a)pyrene             | 5                    | U |
| 193-39-5  | Indeno(1,2,3-cd)Pyrene     | 5                    | U |
| 53-70-3   | Dibenz(a,h)anthracene      | 5                    | U |
| 191-24-2  | Benzo(g,h,i)perylene       | 5                    | U |

(1) - Cannot be separated from Diphenylamine

1LCF  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EDPL8

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004

Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: EDPK9

Lab Sample ID: 6004.011      Date Received: 04/19/00

Lab File ID: H0940      Date Extracted: 04/23/00

Sample Volume: 1000 (mL)      Date Analyzed: 05/05/00

Concentrated Extract Volume: 1000 (uL)      Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

Number TICs found:      0

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC.<br>(ug/L) | Q |
|------------|---------------|----|----------------------|---|
| 1.         |               |    |                      |   |
| 2.         |               |    |                      |   |
| 3.         |               |    |                      |   |
| 4.         |               |    |                      |   |
| 5.         |               |    |                      |   |
| 6.         |               |    |                      |   |
| 7.         |               |    |                      |   |
| 8.         |               |    |                      |   |
| 9.         |               |    |                      |   |
| 10.        |               |    |                      |   |
| 11.        |               |    |                      |   |
| 12.        |               |    |                      |   |
| 13.        |               |    |                      |   |
| 14.        |               |    |                      |   |
| 15.        |               |    |                      |   |
| 16.        |               |    |                      |   |
| 17.        |               |    |                      |   |
| 18.        |               |    |                      |   |
| 19.        |               |    |                      |   |
| 20.        |               |    |                      |   |
| 21.        |               |    |                      |   |
| 22.        |               |    |                      |   |
| 23.        |               |    |                      |   |
| 24.        |               |    |                      |   |
| 25.        |               |    |                      |   |
| 26.        |               |    |                      |   |
| 27.        |               |    |                      |   |
| 28.        |               |    |                      |   |
| 29.        |               |    |                      |   |
| 30.        |               |    |                      |   |

1LCB  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDPMO

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: EDPK9

Lab Sample ID: 6004.013

Date Received: 04/19/00

Lab File ID: H0941

Date Extracted: 04/23/00

Sample Volume: 1000 (mL)

Date Analyzed: 05/05/00

Concentrated Extract Volume: 1000 (uL)

Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

| CAS NO.  | COMPOUND                     | CONCENTRATION<br>(ug/L) | Q |
|----------|------------------------------|-------------------------|---|
| 108-95-2 | Phenol                       | 5                       | U |
| 111-44-4 | bis(2-Chloroethyl) ether     | 5                       | U |
| 95-57-8  | 2-Chlorophenol               | 5                       | U |
| 95-48-7  | 2-Methylphenol               | 5                       | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 5                       | U |
| 106-44-5 | 4-Methylphenol               | 5                       | U |
| 621-64-7 | N-Nitroso-di-n-propylamine   | 5                       | U |
| 67-72-1  | Hexachloroethane             | 5                       | U |
| 98-95-3  | Nitrobenzene                 | 5                       | U |
| 78-59-1  | Isophorone                   | 5                       | U |
| 88-75-5  | 2-Nitrophenol                | 5                       | U |
| 105-67-9 | 2,4-Dimethylphenol           | 5                       | U |
| 111-91-1 | bis(2-Chloroethoxy) methane  | 5                       | U |
| 120-83-2 | 2,4-Dichlorophenol           | 5                       | U |
| 91-20-3  | Naphthalene                  | 5                       | U |
| 106-47-8 | 4-Chloroaniline              | 5                       | U |
| 87-68-3  | Hexachlorobutadiene          | 5                       | U |
| 59-50-7  | 4-Chloro-3-methylphenol      | 5                       | U |
| 91-57-6  | 2-Methylnaphthalene          | 5                       | U |
| 77-47-4  | Hexachlorocyclopentadiene    | 5                       | U |
| 88-06-2  | 2,4,6-Trichlorophenol        | 5                       | U |
| 95-95-4  | 2,4,5-Trichlorophenol        | 20                      | U |
| 91-58-7  | 2-Chloronaphthalane          | 5                       | U |
| 88-74-4  | 2-Nitroaniline               | 20                      | U |
| 131-11-3 | Dimethylphthalate            | 5                       | U |
| 208-96-8 | Acenaphthylene               | 5                       | U |
| 606-20-2 | 2,6-Dinitrotoluene           | 5                       | U |
| 99-09-2  | 3-Nitroaniline               | 20                      | U |
| 83-32-9  | Acenaphthene                 | 5                       | U |

1LCC  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDPM0

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004  
 Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: EDPK9  
 Lab Sample ID: 6004.013      Date Received: 04/19/00  
 Lab File ID: H0941      Date Extracted: 04/23/00  
 Sample Volume: 1000 (mL)      Date Analyzed: 05/05/00  
 Concentrated Extract Volume: 1000 (uL)      Dilution Factor: 1.0  
 Injection Volume: 1 (uL)

| CAS NO.   | COMPOUND                   | CONCENTRATION (ug/L) | Q |
|-----------|----------------------------|----------------------|---|
| 51-28-5   | 2,4-Dinitrophenol          | 20                   | U |
| 100-02-7  | 4-Nitrophenol              | 20                   | U |
| 132-64-9  | Dibenzofuran               | 5                    | U |
| 121-14-2  | 2,4-Dinitrotoluene         | 5                    | U |
| 84-66-2   | Diethylphthalate           | 5                    | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 5                    | U |
| 86-73-7   | Fluorene                   | 5                    | U |
| 100-01-6  | 4-Nitroaniline             | 20                   | U |
| 534-52-1  | 4,6-Dinitro-2-methylphenol | 20                   | U |
| 86-30-6   | N-Nitrosodiphenylamine (1) | 5                    | U |
| 101-55-3  | 4-Bromophenyl-phenylether  | 5                    | U |
| 118-74-1  | Hexachlorobenzene          | 5                    | U |
| 87-86-5   | Pentachlorophenol          | 20                   | U |
| 85-01-8   | Phenanthrene               | 5                    | U |
| 120-12-7  | Anthracene                 | 5                    | U |
| 84-74-2   | Di-n-butylphthalate        | 5                    | U |
| 206-44-0  | Fluoranthene               | 5                    | U |
| 129-00-0  | Pyrene                     | 5                    | U |
| 85-68-7   | Butylbenzylphthalate       | 5                    | U |
| 91-94-1   | 3,3'-Dichlorobenzidine     | 5                    | U |
| 56-55-3   | Benzo(a)anthracene         | 5                    | U |
| 218-01-9  | Chrysene                   | 5                    | U |
| 117-81-7  | bis(2-Ethylhexyl)phthalate | 5                    | U |
| 117-84-0  | Di-n-octylphthalate        | 5                    | U |
| 205-99-2  | Benzo(b)fluoranthene       | 5                    | U |
| 207-08-9  | Benzo(k)fluoranthene       | 5                    | U |
| 50-32-8   | Benzo(a)pyrene             | 5                    | U |
| 193-39-5  | Indeno(1,2,3-cd)Pyrene     | 5                    | U |
| 53-70-3   | Dibenz(a,h)anthracene      | 5                    | U |
| 191-24-2  | Benzo(g,h,i)perylene       | 5                    | U |

(1) - Cannot be separated from Diphenylamine

1LCF  
LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EDPMO

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

Lab Code: PDP Case No.: 27986 SAS No.: \_\_\_\_\_ SDG No.: EDPK9

Lab Sample ID: 6004.013 Date Received: 04/19/00

Lab File ID: H0941 Date Extracted: 04/23/00

Sample Volume: 1000 (mL) Date Analyzed: 05/05/00

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

Number TICs found: 0

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC.<br>(ug/L) | Q |
|------------|---------------|----|----------------------|---|
| 1.         |               |    |                      |   |
| 2.         |               |    |                      |   |
| 3.         |               |    |                      |   |
| 4.         |               |    |                      |   |
| 5.         |               |    |                      |   |
| 6.         |               |    |                      |   |
| 7.         |               |    |                      |   |
| 8.         |               |    |                      |   |
| 9.         |               |    |                      |   |
| 10.        |               |    |                      |   |
| 11.        |               |    |                      |   |
| 12.        |               |    |                      |   |
| 13.        |               |    |                      |   |
| 14.        |               |    |                      |   |
| 15.        |               |    |                      |   |
| 16.        |               |    |                      |   |
| 17.        |               |    |                      |   |
| 18.        |               |    |                      |   |
| 19.        |               |    |                      |   |
| 20.        |               |    |                      |   |
| 21.        |               |    |                      |   |
| 22.        |               |    |                      |   |
| 23.        |               |    |                      |   |
| 24.        |               |    |                      |   |
| 25.        |               |    |                      |   |
| 26.        |               |    |                      |   |
| 27.        |               |    |                      |   |
| 28.        |               |    |                      |   |
| 29.        |               |    |                      |   |
| 30.        |               |    |                      |   |

1LCB  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDPM1

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004  
 Lab Code: PDP Case No.: 27986 SAS No.: \_\_\_\_\_ SDG No.: EDPK9  
 Lab Sample ID: 6008.001 Date Received: 04/20/00  
 Lab File ID: H0942 Date Extracted: 04/23/00  
 Sample Volume: 1000 (mL) Date Analyzed: 05/05/00  
 Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0  
 Injection Volume: 1.0 (uL)

| CAS NO.  | COMPOUND                     | CONCENTRATION<br>(ug/L) | Q |
|----------|------------------------------|-------------------------|---|
| 108-95-2 | Phenol                       | 5                       | U |
| 111-44-4 | bis(2-Chloroethyl) ether     | 5                       | U |
| 95-57-8  | 2-Chlorophenol               | 5                       | U |
| 95-48-7  | 2-Methylphenol               | 5                       | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 5                       | U |
| 106-44-5 | 4-Methylphenol               | 5                       | U |
| 621-64-7 | N-Nitroso-di-n-propylamine   | 5                       | U |
| 67-72-1  | Hexachloroethane             | 5                       | U |
| 98-95-3  | Nitrobenzene                 | 5                       | U |
| 78-59-1  | Isophorone                   | 5                       | U |
| 88-75-5  | 2-Nitrophenol                | 5                       | U |
| 105-67-9 | 2,4-Dimethylphenol           | 5                       | U |
| 111-91-1 | bis(2-Chloroethoxy) methane  | 5                       | U |
| 120-83-2 | 2,4-Dichlorophenol           | 5                       | U |
| 91-20-3  | Naphthalene                  | 5                       | U |
| 106-47-8 | 4-Chloroaniline              | 5                       | U |
| 87-68-3  | Hexachlorobutadiene          | 5                       | U |
| 59-50-7  | 4-Chloro-3-methylphenol      | 5                       | U |
| 91-57-6  | 2-Methylnaphthalene          | 5                       | U |
| 77-47-4  | Hexachlorocyclopentadiene    | 5                       | U |
| 88-06-2  | 2,4,6-Trichlorophenol        | 5                       | U |
| 95-95-4  | 2,4,5-Trichlorophenol        | 20                      | U |
| 91-58-7  | 2-Chloronaphthalane          | 5                       | U |
| 88-74-4  | 2-Nitroaniline               | 20                      | U |
| 131-11-3 | Dimethylphthalate            | 5                       | U |
| 208-96-8 | Acenaphthylene               | 5                       | U |
| 606-20-2 | 2,6-Dinitrotoluene           | 5                       | U |
| 99-09-2  | 3-Nitroaniline               | 20                      | U |
| 83-32-9  | Acenaphthene                 | 5                       | U |

000411

EDPM1

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004  
 Lab Code: PDP Case No.: 27986 SAS No.: \_\_\_\_\_ SDG No.: EDPK9  
 Lab Sample ID: 6008.001 Date Received: 04/20/00  
 Lab File ID: H0942 Date Extracted: 04/23/00  
 Sample Volume: 1000 (mL) Date Analyzed: 05/05/00  
 Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0  
 Injection Volume: 1 (uL)

| CAS NO.   | COMPOUND                   | CONCENTRATION<br>(ug/L) | Q |
|-----------|----------------------------|-------------------------|---|
| 51-28-5   | 2,4-Dinitrophenol          | 20                      | U |
| 100-02-7  | 4-Nitrophenol              | 20                      | U |
| 132-64-9  | Dibenzofuran               | 5                       | U |
| 121-14-2  | 2,4-Dinitrotoluene         | 5                       | U |
| 84-66-2   | Diethylphthalate           | 5                       | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 5                       | U |
| 86-73-7   | Fluorene                   | 5                       | U |
| 100-01-5  | 4-Nitroaniline             | 20                      | U |
| 534-52-1  | 4,6-Dinitro-2-methylphenol | 20                      | U |
| 86-30-6   | N-Nitrosodiphenylamine (1) | 5                       | U |
| 101-55-3  | 4-Bromophenyl-phenylether  | 5                       | U |
| 118-74-1  | Hexachlorobenzene          | 5                       | U |
| 87-86-5   | Pentachlorophenol          | 20                      | U |
| 85-01-8   | Phenanthrene               | 5                       | U |
| 120-12-7  | Anthracene                 | 5                       | U |
| 84-74-2   | Di-n-butylphthalate        | 5                       | U |
| 206-44-0  | Fluoranthene               | 5                       | U |
| 129-00-0  | Pyrene                     | 5                       | U |
| 85-68-7   | Butylbenzylphthalate       | 5                       | U |
| 91-94-1   | 3,3'-Dichlorobenzidine     | 5                       | U |
| 56-55-3   | Benzo(a)anthracene         | 5                       | U |
| 218-01-9  | Chrysene                   | 5                       | U |
| 117-81-7  | bis(2-Ethylhexyl)phthalate | 5                       | U |
| 117-84-0  | Di-n-octylphthalate        | 5                       | U |
| 205-99-2  | Benzo(b)fluoranthene       | 5                       | U |
| 207-08-9  | Benzo(k)fluoranthene       | 5                       | U |
| 50-32-8   | Benzo(a)pyrene             | 5                       | U |
| 193-39-5  | Indeno(1,2,3-cd)Pyrene     | 5                       | U |
| 53-70-3   | Dibenz(a,h)anthracene      | 5                       | U |
| 191-24-2  | Benzo(g,h,i)perylene       | 5                       | U |

(1) - Cannot be separated from Diphenylamine

1LCF  
LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EDPM1

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

Lab Code: PDP Case No.: 27986 SAS No.: \_\_\_\_\_ SDG No.: EDPK9

Lab Sample ID: 6008.001 Date Received: 04/20/00

Lab File ID: H0942 Date Extracted: 04/23/00

Sample Volume: 1000 (mL) Date Analyzed: 05/05/00

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

Number TICs found: 0

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC.<br>(ug/L) | Q |
|------------|---------------|----|----------------------|---|
| 1.         |               |    |                      |   |
| 2.         |               |    |                      |   |
| 3.         |               |    |                      |   |
| 4.         |               |    |                      |   |
| 5.         |               |    |                      |   |
| 6.         |               |    |                      |   |
| 7.         |               |    |                      |   |
| 8.         |               |    |                      |   |
| 9.         |               |    |                      |   |
| 10.        |               |    |                      |   |
| 11.        |               |    |                      |   |
| 12.        |               |    |                      |   |
| 13.        |               |    |                      |   |
| 14.        |               |    |                      |   |
| 15.        |               |    |                      |   |
| 16.        |               |    |                      |   |
| 17.        |               |    |                      |   |
| 18.        |               |    |                      |   |
| 19.        |               |    |                      |   |
| 20.        |               |    |                      |   |
| 21.        |               |    |                      |   |
| 22.        |               |    |                      |   |
| 23.        |               |    |                      |   |
| 24.        |               |    |                      |   |
| 25.        |               |    |                      |   |
| 26.        |               |    |                      |   |
| 27.        |               |    |                      |   |
| 28.        |               |    |                      |   |
| 29.        |               |    |                      |   |
| 30.        |               |    |                      |   |

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

ILCB

EPA SAMPLE NO.

EDPM2

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: EDPK9

Lab Sample ID: 6008.002

Date Received: 04/20/00

Lab File ID: H0943

Date Extracted: 04/23/00

Sample Volume: 1000 (mL)

Date Analyzed: 05/05/00

Concentrated Extract Volume: 1000 (uL)

Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

| CAS NO.  | COMPOUND                     | CONCENTRATION<br>(ug/L) | Q |
|----------|------------------------------|-------------------------|---|
| 108-95-2 | Phenol                       | 5                       | U |
| 111-44-4 | bis(2-Chloroethyl) ether     | 5                       | U |
| 95-57-8  | 2-Chlorophenol               | 5                       | U |
| 95-48-7  | 2-Methylphenol               | 5                       | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 5                       | U |
| 106-44-5 | 4-Methylphenol               | 5                       | U |
| 621-64-7 | N-Nitroso-di-n-propylamine   | 5                       | U |
| 67-72-1  | Hexachloroethane             | 5                       | U |
| 98-95-3  | Nitrobenzene                 | 5                       | U |
| 78-59-1  | Isophorone                   | 5                       | U |
| 88-75-5  | 2-Nitrophenol                | 5                       | U |
| 105-67-9 | 2,4-Dimethylphenol           | 5                       | U |
| 111-91-1 | bis(2-Chloroethoxy)methane   | 5                       | U |
| 120-83-2 | 2,4-Dichlorophenol           | 5                       | U |
| 91-20-3  | Naphthalene                  | 5                       | U |
| 106-47-8 | 4-Chloroaniline              | 5                       | U |
| 87-68-3  | Hexachlorobutadiene          | 5                       | U |
| 59-50-7  | 4-Chloro-3-methylphenol      | 5                       | U |
| 91-57-6  | 2-Methylnaphthalene          | 5                       | U |
| 77-47-4  | Hexachlorocyclopentadiene    | 5                       | U |
| 88-06-2  | 2,4,6-Trichlorophenol        | 5                       | U |
| 95-95-4  | 2,4,5-Trichlorophenol        | 20                      | U |
| 91-58-7  | 2-Chloronaphthalane          | 5                       | U |
| 88-74-4  | 2-Nitroaniline               | 20                      | U |
| 131-11-3 | Dimethylphthalate            | 5                       | U |
| 208-96-8 | Acenaphthylene               | 5                       | U |
| 606-20-2 | 2,6-Dinitrotoluene           | 5                       | U |
| 99-09-2  | 3-Nitroaniline               | 20                      | U |
| 83-32-9  | Acenaphthene                 | 5                       | U |

1LCC  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDPM2

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: EDPK9

Lab Sample ID: 6008.002

Date Received: 04/20/00

Lab File ID: H0943

Date Extracted: 04/23/00

Sample Volume: 1000 (mL)

Date Analyzed: 05/05/00

Concentrated Extract Volume: 1000 (uL)

Dilution Factor: 1.0

Injection Volume: 1 (uL)

| CAS NO.   | COMPOUND                   | CONCENTRATION<br>(ug/L) | Q |
|-----------|----------------------------|-------------------------|---|
| 51-28-5   | 2,4-Dinitrophenol          | 20                      | U |
| 100-02-7  | 4-Nitrophenol              | 20                      | U |
| 132-64-9  | Dibenzofuran               | 5                       | U |
| 121-14-2  | 2,4-Dinitrotoluene         | 5                       | U |
| 84-66-2   | Diethylphthalate           | 5                       | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 5                       | U |
| 86-73-7   | Fluorene                   | 5                       | U |
| 100-01-6  | 4-Nitroaniline             | 20                      | U |
| 534-52-1  | 4,6-Dinitro-2-methylphenol | 20                      | U |
| 86-30-6   | N-Nitrosodiphenylamine (1) | 5                       | U |
| 101-55-3  | 4-Bromophenyl-phenylether  | 5                       | U |
| 118-74-1  | Hexachlorobenzene          | 5                       | U |
| 87-86-5   | Pentachlorophenol          | 20                      | U |
| 85-01-8   | Phenanthrene               | 5                       | U |
| 120-12-7  | Anthracene                 | 5                       | U |
| 84-74-2   | Di-n-butylphthalate        | 5                       | U |
| 206-44-0  | Fluoranthene               | 5                       | U |
| 129-00-0  | Pyrene                     | 5                       | U |
| 85-68-7   | Butylbenzylphthalate       | 5                       | U |
| 91-94-1   | 3,3'-Dichlorobenzidine     | 5                       | U |
| 56-55-3   | Benzo(a)anthracene         | 5                       | U |
| 218-01-9  | Chrysene                   | 5                       | U |
| 117-81-7  | bis(2-Ethylhexyl)phthalate | 5                       | U |
| 117-84-0  | Di-n-octylphthalate        | 5                       | U |
| 205-99-2  | Benzo(b)fluoranthene       | 5                       | U |
| 207-08-9  | Benzo(k)fluoranthene       | 5                       | U |
| 50-32-8   | Benzo(a)pyrene             | 5                       | U |
| 193-39-5  | Indeno(1,2,3-cd)Pyrene     | 5                       | U |
| 53-70-3   | Dibenz(a,h)anthracene      | 5                       | U |
| 191-24-2  | Benzo(g,h,i)perylene       | 5                       | U |

(1) - Cannot be separated from Diphenylamine

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EDPM2

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: EDPK9

Lab Sample ID: 6008.002

Date Received: 04/20/00

Lab File ID: H0943

Date Extracted: 04/23/00

Sample Volume: 1000 (mL)

Date Analyzed: 05/05/00

Concentrated Extract Volume: 1000 (uL)

Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

Number TICs found: 0

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC.<br>(ug/L) | Q |
|------------|---------------|----|----------------------|---|
| 1.         |               |    |                      |   |
| 2.         |               |    |                      |   |
| 3.         |               |    |                      |   |
| 4.         |               |    |                      |   |
| 5.         |               |    |                      |   |
| 6.         |               |    |                      |   |
| 7.         |               |    |                      |   |
| 8.         |               |    |                      |   |
| 9.         |               |    |                      |   |
| 10.        |               |    |                      |   |
| 11.        |               |    |                      |   |
| 12.        |               |    |                      |   |
| 13.        |               |    |                      |   |
| 14.        |               |    |                      |   |
| 15.        |               |    |                      |   |
| 16.        |               |    |                      |   |
| 17.        |               |    |                      |   |
| 18.        |               |    |                      |   |
| 19.        |               |    |                      |   |
| 20.        |               |    |                      |   |
| 21.        |               |    |                      |   |
| 22.        |               |    |                      |   |
| 23.        |               |    |                      |   |
| 24.        |               |    |                      |   |
| 25.        |               |    |                      |   |
| 26.        |               |    |                      |   |
| 27.        |               |    |                      |   |
| 28.        |               |    |                      |   |
| 29.        |               |    |                      |   |
| 30.        |               |    |                      |   |

1LCB  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SLCS60

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004  
 Lab Code: PDP Case No.: 27986 SAS No.: \_\_\_\_\_ SDG No.: EDPK9  
 Lab Sample ID: SVOL592 Date Received: \_\_\_\_\_  
 Lab File ID: H0927 Date Extracted: 04/23/00  
 Sample Volume: 1000 (mL) Date Analyzed: 05/05/00  
 Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0  
 Injection Volume: 1.0 (uL)

| CAS NO.  | COMPOUND                     | CONCENTRATION<br>(ug/L) | Q |
|----------|------------------------------|-------------------------|---|
| 108-95-2 | Phenol                       | 37                      |   |
| 111-44-4 | bis(2-Chloroethyl) ether     | 19                      |   |
| 95-57-8  | 2-Chlorophenol               | 38                      |   |
| 95-48-7  | 2-Methylphenol               | 5                       | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 5                       | U |
| 106-44-5 | 4-Methylphenol               | 5                       | U |
| 621-64-7 | N-Nitroso-di-n-propylamine   | 18                      |   |
| 67-72-1  | Hexachloroethane             | 10                      |   |
| 98-95-3  | Nitrobenzene                 | 5                       | U |
| 78-59-1  | Isophorone                   | 13                      |   |
| 88-75-5  | 2-Nitrophenol                | 5                       | U |
| 105-67-9 | 2,4-Dimethylphenol           | 5                       | U |
| 111-91-1 | bis(2-Chloroethoxy)methane   | 5                       | U |
| 120-83-2 | 2,4-Dichlorophenol           | 5                       | U |
| 91-20-3  | Naphthalene                  | 17                      |   |
| 106-47-8 | 4-Chloroaniline              | 28                      |   |
| 87-68-3  | Hexachlorobutadiene          | 5                       | U |
| 59-50-7  | 4-Chloro-3-methylphenol      | 5                       | U |
| 91-57-6  | 2-Methylnaphthalene          | 5                       | U |
| 77-47-4  | Hexachlorocyclopentadiene    | 5                       | U |
| 88-06-2  | 2,4,6-Trichlorophenol        | 31                      |   |
| 95-95-4  | 2,4,5-Trichlorophenol        | 20                      | U |
| 91-58-7  | 2-Chloronaphthalane          | 5                       | U |
| 88-74-4  | 2-Nitroaniline               | 20                      | U |
| 131-11-3 | Dimethylphthalate            | 5                       | U |
| 208-96-8 | Acenaphthylene               | 5                       | U |
| 606-20-2 | 2,6-Dinitrotoluene           | 5                       | U |
| 99-09-2  | 3-Nitroaniline               | 20                      | U |
| 83-32-9  | Acenaphthene                 | 5                       | U |

000549

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SLCS60

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004  
 Lab Code: PDP Case No.: 27986 SAS No.: \_\_\_\_\_ SDG No.: EDPK9  
 Lab Sample ID: SVOL592 Date Received: \_\_\_\_\_  
 Lab File ID: H0927 Date Extracted: 04/23/00  
 Sample Volume: 1000 (mL) Date Analyzed: 05/05/00  
 Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0  
 Injection Volume: 1 (uL)

| CAS NO.   | COMPOUND                   | CONCENTRATION (ug/L) | Q |
|-----------|----------------------------|----------------------|---|
| 51-28-5   | 2,4-Dinitrophenol          | 20                   | U |
| 100-02-7  | 4-Nitrophenol              | 20                   | U |
| 132-64-9  | Dibenzofuran               | 5                    | U |
| 121-14-2  | 2,4-Dinitrotoluene         | 12                   |   |
| 84-66-2   | Diethylphthalate           | 14                   |   |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 5                    | U |
| 86-73-7   | Fluorene                   | 5                    | U |
| 100-01-6  | 4-Nitroaniline             | 20                   | U |
| 534-52-1  | 4,6-Dinitro-2-methylphenol | 20                   | U |
| 86-30-6   | N-Nitrosodiphenylamine (1) | 11                   |   |
| 101-55-3  | 4-Bromophenyl-phenylether  | 5                    | U |
| 118-74-1  | Hexachlorobenzene          | 13                   |   |
| 87-86-5   | Pentachlorophenol          | 20                   | U |
| 85-01-8   | Phenanthrene               | 5                    | U |
| 120-12-7  | Anthracene                 | 5                    | U |
| 84-74-2   | Di-n-butylphthalate        | 5                    | U |
| 206-44-0  | Fluoranthene               | 5                    | U |
| 129-00-0  | Pyrene                     | 5                    | U |
| 85-68-7   | Butylbenzylphthalate       | 5                    | U |
| 91-94-1   | 3,3'-Dichlorobenzidine     | 5                    | U |
| 56-55-3   | Benzo(a)anthracene         | 5                    | U |
| 218-01-9  | Chrysene                   | 5                    | U |
| 117-81-7  | bis(2-Ethylhexyl)phthalate | 5                    | U |
| 117-84-0  | Di-n-octylphthalate        | 5                    | U |
| 205-99-2  | Benzo(b)fluoranthene       | 5                    | U |
| 207-08-9  | Benzo(k)fluoranthene       | 5                    | U |
| 50-32-8   | Benzo(a)pyrene             | 14                   |   |
| 193-39-5  | Indeno(1,2,3-cd)Pyrene     | 5                    | U |
| 53-70-3   | Dibenz(a,h)anthracene      | 5                    | U |
| 191-24-2  | Benzo(g,h,i)perylene       | 5                    | U |

(1) - Cannot be separated from Diphenylamine

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION V

DATE:

SUBJECT: Review of Data  
Received for Review on 5-19-00

FROM: Stephen L. Ostrodka, Chief (SMF-4J)  
Superfund Field Services Section

*- An Steve Ostrodka  
Michael J. Byrnes  
6/27/00*

TO: Data User: USEPA

We have reviewed the data for the following case:

SITE NAME: HIMCO LANDFILL (IN)

CASE NUMBER: 27986 SDG NUMBER: EDCF6

Number and Type of Samples: 18 (WATER)

Sample Numbers: EDCF6-9, EDCG1, EDCG3, EDPM3, EBP46-8

Laboratory: PDP EDPNO-7 Hrs for Review: 12.5

Following are our findings:

*the data as reliable and acceptable with the  
qualifications described in the attached narrative  
Michael J. Byrnes*

*MW @ GP*

*VOCS & SVOCs  
200*

CC: Cecilia Moore  
Region 5 TPO  
Mail Code: SM-55

NARRATIVE

LABORATORY: PDP ANALYTICAL SRVs.  
SDG: EDCF6

Page of

CASE: 27986

SITE: HIMCO LANDFILL

This review covers eighteen (18) low concentration water samples, numbered EDCF6 - EDCF9, EDCG1, EDCG3, EDPM3, EDPM6 - EDPM8, and EDPN0 - EDPN7, were collected on 04/25/2000. The PDP Analytical Services, of Woodland, TX received the samples on 04/27/2000, in good condition. The samples were analyzed for low concentration VOAs and SVOAs. Samples EDPM8 and EDCG1 are identified as Trip Blanks and were analyzed for VOA. All samples were analyzed per CLP SOW OLC02.1.

Laboratory Control Samples (LCS) Identified as VLCS94, VLCS 5 and VLCS97 (VOA) and SLCS69 (SVOA) were analyzed in place of matrix spike/matrix spike duplicate (MS/MSD) samples.

Samples EDPM8 and EDCG1 were identified as Trip Blanks and sample.

The VOA samples were analyzed within the holding time of fourteen (14) days for preserved water samples and the SVOA samples were extracted within the required holding time of seven days. The analysis of the semivolatile extracts were performed within forty (40) days. Therefore, the results for the VOA and SVOA fractions are acceptable.

The reviewer's narrative and data qualifiers are noted in the following pages.

Reviewed by: W. Ira Wilson\_\_Lockheed Martin/ESAT

Date: \_\_June 16 , 2000

NARRATIVE

LABORATORY: PDP ANALYTICAL SRVs.

Page 3 of 8

SDG: EDCF6

CASE: 27986

SITE: HIMCO LANDFILL

Below is a summary of the out-of-control audits and the possible effect on the data for this case.

**1. HOLDING TIME**

This review covers eighteen (18) low concentration water samples, numbered EDCF6 - EDCF9, EDCG1, EDCG3, EDPM3, EDPM6 - EDPM8 and EDPN0 - EDPN7, were collected on 04/25/2000. The PDP Analytical Services, of Woodland, TX received the samples on 04/27/2000 in good condition. The samples were analyzed for low concentration VOAs and SVOAs. Samples EDPM8 and EDCG1 are identified as Trip Blanks and were analyzed for VOA only. All samples were analyzed per CLP SOW OLC02.1.

The VOA samples were analyzed within the holding time of fourteen (14) days for preserved water samples; therefore, the results are acceptable.

The SVOA samples were extracted within the holding time of seven (7) days. The extracts were promptly analyzed within the required 40 days criteria. Therefore; the results are acceptable.

**2. GC/MS TUNING AND GC PERFORMANCE**

GC/MS tuning complied with the mass list and ion abundance criteria for BFB and DFTPP.

**3. CALIBRATION**

Initial and continuing calibration standards of VOA and SVOA were evaluated for the Target Compounds List (TCL) and outliers were recorded on the outlier forms included as a part of this narrative.

**4. METHOD BLANK**

Blanks VBLK95 and VBLK97 are the low concentration water Volatile Method Blanks. The Method Blanks were clean, no TCLs or TICs reported. Blank VHBLK01 is identified as a Holding Blank sample

Reviewed by: W. Ira Wilson\_\_Lockheed Martin/ESAT

Date: \_\_June 16 , 2000

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NARRATIVE

LABORATORY: PDP ANALYTICAL SRVs.  
SDG: EDCF6

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CASE: 27986

SITE: HIMCO LANDFILL

which was also clean.

Blank SBLK37 is the low conc. water Semivolatile Method Blank. Blank SBLK37 reported no TCLs and no TICs.

Please refer to Form-IV LCV and Form-IV LCSV for a list of associated samples.

#### 5. SURROGATE RECOVERY AND SYSTEM MONITORING COMPOUNDS

The low concentration recovery of the system monitoring spiking Compound (BFB = Bromofluorobenzene) for the volatile analysis and the surrogate compounds for the semivolatile analysis met the required QC limits for all samples; therefore, all results are acceptable.

#### 6. MATRIX SPIKE/MSD SAMPLES

A Laboratory Control (LCS) Samples identified as VLCS94, VLCS95 and VLCS97 (for volatiles) and SLCS69 (for semivolatiles) were used in place of a matrix spike/matrix spike duplicate sample for the low concentration analysis. All spike recoveries were within the QC limits; therefore, the results are acceptable.

#### 7. FIELD BLANK AND FIELD DUPLICATE

Samples EDPM8 and EDCG1 were identified as Trip Blanks and analyzed for volatiles only. The sample EDPM8 reported a detectable amount of Methylene Chloride (0.6µg/L) and no TICs. Volatile sample EDCG1 reported a detectable amount of Methylene Chloride (3µg/L) and Acetone (4µg/L), and no TICs.

#### 8. INTERNAL STANDARDS

The internal standard retention times and area counts for the low concentration volatile and semivolatile samples were within the required QC limits; therefore, the results are acceptable.

Reviewed by: W. Ira Wilson\_\_Lockheed Martin/ESAT

Date: \_\_June 16 , 2000

NARRATIVE

LABORATORY: PDP ANALYTICAL SRVs.

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SDG: EDCF6

CASE: 27986

SITE: HIMCO LANDFILL

9. COMPOUND IDENTIFICATION

Target compounds and TICs were correctly identified by "best fit" library search method.

10. COMPOUND QUANTITATION AND REPORTED DETECTION LIMITS

VOA and SVOA Target Compounds (TCLs) and Tentative Identified Compounds (TICs) were properly quantitated; therefore, the results are acceptable.

11. SYSTEM PERFORMANCE

GC/MS baseline indicated acceptable performance.

GC baseline for pest/PCB analysis indicated acceptable performance.

12. ADDITIONAL INFORMATION

None.

Reviewed by: W. Ira Wilson\_\_Lockheed Martin/ESAT

Date: \_\_June 16 , 2000

ASE SAS# 2748 S.  
 COLUMN DB 624  
 HEATED PURGE(Y/N)       

LABORATORY HPA Analytical  
 SITE NAME HTMETS

| Instrument#<br>Date/Time    | #    | Initial cal         |      | Contin cal          |      | Contin Cal          |             | Contin Cal         |              | Contin Cal  |          |
|-----------------------------|------|---------------------|------|---------------------|------|---------------------|-------------|--------------------|--------------|-------------|----------|
|                             |      | rt                  | %ofd | rt                  | %ofd | rt                  | %ofd        | rt                 | %ofd         | rt          | %ofd     |
| <u>G-HP5973</u>             |      |                     |      |                     |      |                     |             |                    |              |             |          |
|                             |      | <u>3/25/00-1092</u> |      | <u>4/27/00-1724</u> |      | <u>4/28/00-0610</u> |             | <u>5/1/00-2341</u> |              |             |          |
| Chloromethane               | 0.01 |                     |      |                     |      |                     |             |                    |              |             |          |
| Bromethane                  | 0.10 |                     |      |                     |      |                     |             |                    |              |             |          |
| Vinyl chloride              | 0.10 |                     |      |                     |      |                     |             |                    |              |             |          |
| Chloroethane                | 0.01 |                     |      |                     |      |                     |             |                    |              |             |          |
| Methylene chloride          | 0.01 |                     |      |                     |      |                     |             |                    |              |             |          |
| Acetone                     | 0.01 |                     |      |                     |      |                     |             |                    |              |             |          |
| Carbon disulfide            | 0.01 |                     |      |                     |      |                     |             |                    |              |             |          |
| 1,1-Dichloroethene          | 0.10 |                     |      |                     |      |                     |             |                    |              |             |          |
| 1,1-Dichloroethane          | 0.20 |                     |      |                     |      |                     |             |                    |              |             |          |
| cis-1,2-Dichloroethene      | 0.10 |                     |      |                     |      |                     |             |                    |              |             |          |
| trans-1,2-Dichloroethene    | 0.10 |                     |      |                     |      |                     |             |                    |              |             |          |
| Chloroform                  | 0.20 |                     |      |                     |      |                     |             |                    |              |             |          |
| 1,2-Dichloroethane          | 0.10 |                     |      |                     |      |                     |             |                    |              |             |          |
| 2-Butanone                  | 0.01 |                     |      |                     |      |                     |             |                    |              |             |          |
| Bromochloromethane          | 0.05 |                     |      |                     |      |                     |             |                    |              |             |          |
| 1,1-Trichloroethane         | 0.10 |                     |      |                     |      |                     |             |                    |              |             |          |
| Carbon tetrachloride        | 0.10 |                     |      |                     |      |                     |             |                    |              |             |          |
| Bromodichloromethane        | 0.20 |                     |      |                     |      |                     |             |                    |              |             |          |
| 1,2-Dichloropropane         | 0.01 |                     |      |                     |      |                     |             |                    |              |             |          |
| cis-1,3-Dichloropropene     | 0.20 |                     |      |                     |      |                     |             |                    |              |             |          |
| Trichloroethene             | 0.30 |                     |      |                     |      |                     |             |                    |              |             |          |
| Dibromochloromethane        | 0.10 |                     |      |                     |      |                     |             |                    |              |             |          |
| 1,1,2-Trichloroethane       | 0.10 |                     |      |                     |      |                     |             |                    |              |             |          |
| Benzene                     | 0.40 |                     |      |                     |      |                     |             |                    |              |             |          |
| trans-1,3-Dichloropropene   | 0.10 |                     |      |                     |      |                     |             |                    |              |             |          |
| Bromoform                   | 0.05 | <u>0.154</u>        |      | <u>0.667</u>        |      | <u>0.244</u>        | <u>29.1</u> | <u>J</u>           | <u>0.237</u> | <u>25.4</u> | <u>J</u> |
| Methyl-2-Pentanone          | 0.01 |                     |      |                     |      |                     |             |                    |              |             |          |
| Hexanone                    | 0.01 |                     |      |                     |      |                     |             |                    |              |             |          |
| Tetrachloroethene           | 0.10 |                     |      |                     |      |                     |             |                    |              |             |          |
| 1,1,1,2-Tetrachloroethane   | 0.10 |                     |      |                     |      |                     |             |                    |              |             |          |
| 1,2-Dibromoethane           | 0.10 |                     |      |                     |      |                     |             |                    |              |             |          |
| Toluene                     | 0.40 |                     |      |                     |      |                     |             |                    |              |             |          |
| Chlorobenzene               | 0.50 |                     |      |                     |      |                     |             |                    |              |             |          |
| Ethylbenzene                | 0.10 |                     |      |                     |      |                     |             |                    |              |             |          |
| Styrene                     | 0.30 |                     |      |                     |      |                     |             |                    |              |             |          |
| Xylene (total)              | 0.30 |                     |      |                     |      |                     |             |                    |              |             |          |
| 1,2-Dibromo-3-chloropropane | 0.10 |                     |      |                     |      |                     |             |                    |              |             |          |
| 1,3-Dichlorobenzene         | 0.40 |                     |      |                     |      |                     |             |                    |              |             |          |
| 1,4-Dichlorobenzene         | 0.40 |                     |      |                     |      |                     |             |                    |              |             |          |
| 1,2-Dichlorobenzene         | 0.40 |                     |      |                     |      |                     |             |                    |              |             |          |
| 1,2,4-Trichlorobenzene      | 0.40 |                     |      |                     |      |                     |             |                    |              |             |          |
| 4-Bromofluorobenzene        | 0.20 |                     |      |                     |      |                     |             |                    |              |             |          |

| Samples affected: |                  |                |                |
|-------------------|------------------|----------------|----------------|
|                   | <u>VBLK94</u>    | <u>VBLK95</u>  | <u>VBLK97</u>  |
|                   | <u>VLCS94</u>    | <u>VLCS95</u>  | <u>VLCS97</u>  |
|                   | <u>EDPM3</u>     | <u>EDCEL-9</u> | <u>VHBLK01</u> |
|                   | <u>EDPM8</u>     | <u>EDPM15</u>  | <u>EDPM2</u>   |
|                   | <u>EDPM6</u>     | <u>EDPM4</u>   |                |
|                   | <u>EDCG1</u>     | <u>EDPM0</u>   |                |
|                   | <u>EDPM7</u>     |                |                |
|                   | <u>EDPM3,5,6</u> |                |                |
|                   | <u>EDCG3</u>     |                |                |
|                   | <u>EDPM7</u>     |                |                |

Reviewer's Init: wfw  
 Date: 6/15/00

CALIBRATION OUTLIER  
 LOW CONCENTRATION WATER SEMIVOLATILE TCL COMPOUNDS  
 (Page 1 of 2)

CASE/SAS#: 2 7986  
 COLUMN: \_\_\_\_\_

LABORATORY: PDP Analytical  
 SITE NAME: HILLCO

| Instrument#                 | Initial Cal. |       |      |   | Contin. Cal. |    |   | Contin. Cal. |      |   | Contin. Cal. |    |   |
|-----------------------------|--------------|-------|------|---|--------------|----|---|--------------|------|---|--------------|----|---|
|                             | #            | rf    | %rsd | * | rf           | %d | * | rf           | %d   | * | rf           | %d | * |
| HP 5973                     |              |       |      |   |              |    |   |              |      |   |              |    |   |
| Date/Time:                  |              |       |      |   |              |    |   |              |      |   |              |    |   |
|                             |              |       |      |   |              |    |   |              |      |   |              |    |   |
| Phenol                      | 0.80         |       |      |   |              |    |   |              |      |   |              |    |   |
| bis(2-chloroethyl) Ether    | 0.70         |       |      |   |              |    |   |              |      |   |              |    |   |
| 2-Chlorophenol              | 0.70         |       |      |   |              |    |   |              |      |   |              |    |   |
| 2-Methylphenol              | 0.70         |       |      |   |              |    |   |              |      |   |              |    |   |
| 2,2'-Oxybis(1-chl-propane)  | 0.01         |       |      |   |              |    |   |              |      |   |              |    |   |
| 4-Methylphenol              | 0.60         |       |      |   |              |    |   |              |      |   |              |    |   |
| N-nitroso-di-n-propylamine  | 0.50         |       |      |   |              |    |   |              |      |   |              |    |   |
| Hexachloroethane            | 0.30         |       |      |   |              |    |   |              |      |   |              |    |   |
| Nitrobenzene                | 0.20         |       |      |   |              |    |   |              |      |   |              |    |   |
| Isophorone                  | 0.40         |       |      |   |              |    |   |              |      |   |              |    |   |
| 2-Nitrophenol               | 0.10         |       |      |   |              |    |   |              |      |   |              |    |   |
| 2,4-Dimethylphenol          | 0.20         |       |      |   |              |    |   |              |      |   |              |    |   |
| bis-(2-chloroethoxy)methane | 0.30         |       |      |   |              |    |   |              |      |   |              |    |   |
| 2,4-Dichlorophenol          | 0.20         |       |      |   |              |    |   |              |      |   |              |    |   |
| 1,2,4-Trichlorobenzene      | 0.20         |       |      |   |              |    |   |              |      |   |              |    |   |
| Naphthalene                 | 0.70         |       |      |   |              |    |   |              |      |   |              |    |   |
| 4-Chloroaniline             | 0.01         |       |      |   |              |    |   |              |      |   |              |    |   |
| Hexachlorobutadiene         | 0.01         |       |      |   |              |    |   |              |      |   |              |    |   |
| 4-Chloro-3-methylphenol     | 0.20         |       |      |   |              |    |   |              |      |   |              |    |   |
| 2-Methylnaphthalene         | 0.40         |       |      |   |              |    |   |              |      |   |              |    |   |
| Hexachlorocyclopentadiene   | 0.01         |       |      |   |              |    |   |              |      |   |              |    |   |
| 2,4,6-Trichlorophenol       | 0.20         |       |      |   |              |    |   |              |      |   |              |    |   |
| 2,4,5-Trichlorophenol       | 0.20         |       |      |   |              |    |   |              |      |   |              |    |   |
| 2-Chloronaphthalene         | 0.80         |       |      |   |              |    |   |              |      |   |              |    |   |
| 2-Nitroaniline              | 0.01         |       |      |   |              |    |   |              |      |   |              |    |   |
| Dimethyl phthalate          | 0.01         |       |      |   |              |    |   |              |      |   |              |    |   |
| Acenaphthylene              | 1.30         |       |      |   |              |    |   |              |      |   |              |    |   |
| 2,6-Dinitrotoluene          | 0.20         |       |      |   |              |    |   |              |      |   |              |    |   |
| 3-Nitroaniline              | 0.01         |       |      |   |              |    |   |              |      |   |              |    |   |
| Acenaphthene                | 0.30         |       |      |   |              |    |   |              |      |   |              |    |   |
| 2,4-Dinitrophenol           | 0.01         | 0.104 |      |   | 0.107        |    |   | 0.147        | 40.7 | J |              |    |   |
| 4-Nitrophenol               | 0.01         | 0.233 |      |   | 0.264        |    |   | 0.292        | 25.2 | J |              |    |   |
| Dibenzofuran                | 0.80         |       |      |   |              |    |   |              |      |   |              |    |   |
| 2,4-Dinitrotoluene          | 0.20         |       |      |   |              |    |   |              |      |   |              |    |   |

Affected samples:

SBLK37 EDPN 0  
 SLCS69 EDCG3  
 EDPN3 M6, M7  
 EDPN5-N7  
 EDCFG6-F9  
 EDPN1, N2  
 EDPN4

Reviewer's Init/Date: 6/19/09  
[Signature]

J/R = All positive results are estimated "J" and non-detected results are unusable "R"  
 \* = These flags should be applied to the analytes on the sample data sheets.  
 # = Minimum Relative Response Factor

CALIBRATION OUTLIER  
 LOW CONCENTRATION WATER SEMIVOLATILE TCL COMPOUNDS  
 (Page 2 of 2)

Pg 8 of 8

CASE/SAS#: 27986  
 COLUMN: \_\_\_\_\_

LABORATORY: PDP Analytical S.  
 SITE NAME: HIMCO

| Instrument#                | #    | Initial Cal. |      |   | Contin. Cal. |    |   | Contin. Cal. |    |   | Contin. Cal. |    |   | Contin. Cal. |    |   |
|----------------------------|------|--------------|------|---|--------------|----|---|--------------|----|---|--------------|----|---|--------------|----|---|
|                            |      | rf           | %rsd | * | rf           | %d | * |
| Instrument#                |      |              |      |   |              |    |   |              |    |   |              |    |   |              |    |   |
| Date/Time:                 |      |              |      |   |              |    |   |              |    |   |              |    |   |              |    |   |
|                            |      |              |      |   |              |    |   |              |    |   |              |    |   |              |    |   |
| Diethylphthalate           | 0.01 |              |      |   |              |    |   |              |    |   |              |    |   |              |    |   |
| 4-Chlorophenyl-phenylether | 0.40 |              |      |   |              |    |   |              |    |   |              |    |   |              |    |   |
| Fluorene                   | 0.90 |              |      |   |              |    |   |              |    |   |              |    |   |              |    |   |
| 4-Nitroaniline             | 0.01 |              |      |   |              |    |   |              |    |   |              |    |   |              |    |   |
| 4,6-Dinitro-2-methylphenol | 0.01 |              |      |   |              |    |   |              |    |   |              |    |   |              |    |   |
| N-nitrosodiphenylamine     | 0.01 |              |      |   |              |    |   |              |    |   |              |    |   |              |    |   |
| Bromophenyl-phenylether    | 0.10 |              |      |   |              |    |   |              |    |   |              |    |   |              |    |   |
| Hexachlorobenzene          | 0.10 |              |      |   |              |    |   |              |    |   |              |    |   |              |    |   |
| Pentachlorophenol          | 0.05 |              |      |   |              |    |   |              |    |   |              |    |   |              |    |   |
| Phenanthrene               | 0.70 |              |      |   |              |    |   |              |    |   |              |    |   |              |    |   |
| Anthracene                 | 0.70 |              |      |   |              |    |   |              |    |   |              |    |   |              |    |   |
| Di-n-butylphthalate        | 0.01 |              |      |   |              |    |   |              |    |   |              |    |   |              |    |   |
| Fluoranthene               | 0.60 |              |      |   |              |    |   |              |    |   |              |    |   |              |    |   |
| Pyrene                     | 0.60 |              |      |   |              |    |   |              |    |   |              |    |   |              |    |   |
| Butylbenzylphthalate       | 0.01 |              |      |   |              |    |   |              |    |   |              |    |   |              |    |   |
| 3'-Dichlorobenzidine       | 0.01 |              |      |   |              |    |   |              |    |   |              |    |   |              |    |   |
| Benzo(a)anthracene         | 0.80 |              |      |   |              |    |   |              |    |   |              |    |   |              |    |   |
| Chrysene                   | 0.70 |              |      |   |              |    |   |              |    |   |              |    |   |              |    |   |
| bis(2-Ethylhexyl)phthalate | 0.01 |              |      |   |              |    |   |              |    |   |              |    |   |              |    |   |
| Di-n-octyl phthalate       | 0.01 |              |      |   |              |    |   |              |    |   |              |    |   |              |    |   |
| Benzo(b)fluoranthene       | 0.70 |              |      |   |              |    |   |              |    |   |              |    |   |              |    |   |
| Benzo(k)fluoranthene       | 0.70 |              |      |   |              |    |   |              |    |   |              |    |   |              |    |   |
| Benzo(a)pyrene             | 0.70 |              |      |   |              |    |   |              |    |   |              |    |   |              |    |   |
| Indeno(1,2,3-cd)pyrene     | 0.50 |              |      |   |              |    |   |              |    |   |              |    |   |              |    |   |
| Benzo(a,h)anthracene       | 0.40 |              |      |   |              |    |   |              |    |   |              |    |   |              |    |   |
| Benzo(g,h,i)perylene       | 0.50 |              |      |   |              |    |   |              |    |   |              |    |   |              |    |   |
| Nitrobenzene-d5            | 0.01 |              |      |   |              |    |   |              |    |   |              |    |   |              |    |   |
| 2-Fluorobiphenyl           | 0.70 |              |      |   |              |    |   |              |    |   |              |    |   |              |    |   |
| Terphenyl-d14              | 0.50 |              |      |   |              |    |   |              |    |   |              |    |   |              |    |   |
| Phenol-d5                  | 0.80 |              |      |   |              |    |   |              |    |   |              |    |   |              |    |   |
| 2-Fluorophenol             | 0.60 |              |      |   |              |    |   |              |    |   |              |    |   |              |    |   |
| 2,4,6-Tribromophenol       | 0.01 |              |      |   |              |    |   |              |    |   |              |    |   |              |    |   |

Reviewer's Init/Date: WJW 6/15/00

J/R = All positive results are estimated "J" and non-detected results are unusable "R"

- \* = These flags should be applied to the analytes on the sample data sheets.
- # = Minimum Relative Response Factor

## ORGANIC DATA QUALIFIER DEFINITIONS

For the purpose of defining the flagging nomenclature used in this document, the following code letters and associated definitions are provided:

**VALUE** - when/if the result of a value is greater than or equal to the Contract Required Quantitation Limit (CRQL).

- U** Indicates that the compound was analyzed for, but not detected. The sample quantitation limit corrected for dilution and percent moisture is reported.
- J** Indicates an estimated value. This flag is used either when estimating a concentration for a tentatively identified compound or when the data indicates the presence of a compound where the result is less than the sample quantitation limit, but greater than zero. The flag is also used to indicate a reported result having an associated QC problem.
- R** Indicates the data are unusable. (NOTE: The analyte may or may not be present.)
- N** Indicates presumptive evidence of a compound. This flag is only used for a tentatively identified compound, where the identification is based on a mass spectral library search.
- P** Indicates a pesticide/Aroclor target analyte when there is greater than 25% difference for the detected concentrations between the two GC columns. The lower of the two results is reported.
- C** Indicates pesticide results that have been confirmed by GC/MS.
- B** Indicates the analyte is detected in the associated blank as well as in the sample.
- E** Indicates compounds whose concentrations exceed the calibration range of the instrument.
- D** Indicates an identified compound in an analysis has been diluted. This flag alerts the data user to any differences between the concentrations reported in the two analysis.
- A** Indicates tentatively identified compounds that are suspected to be aldol condensation products.
- G** Indicates the TCLP Matrix Spike Recovery was greater than the upper limit of the analytical method.
- L** Indicates the TCLP Matrix Spike Recovery was less than the lower limit of the analytical method.
- T** Indicates the analyte is found in the associated TCLP extraction blank as well as in the sample.

X,Y,Z are reserved for laboratory defined flags.



United States Environmental Protection Agency  
Contract Laboratory Program

**Communications Traffic Report  
& Chain of Custody Record**  
(For Organic CLP Analysis)

No.

Case No.

|  |   |   |                  |  |
|--|---|---|------------------|--|
| 3. Region No<br>5  | Sampling Co.<br>S.D.G. Environmental Services, Inc. | 5. Date Shipped<br>4/25/00  | Carrier<br>FedEx | 7. Date Received--Received by:<br>4-27-00 Carlos Lixin |
| Sampler (Name)<br>S.D.G. Environmental Services, Inc.  |   | Airbill Number<br>68-D7-0004  |                  | Laboratory Contract No.<br>68-D7-0004                  |
| Sampler Signature<br><i>[Signature]</i>  |   | 6. Ship To:<br>S.D.G. Environmental Services, Inc.<br>10000 E. 15th Ave.<br>Denver, CO 80231  |                  | Unit Price<br>525.00                                   |
| 4. Purpose**<br>Lead <input type="checkbox"/> SF <input type="checkbox"/> PRP <input type="checkbox"/> ST <input type="checkbox"/> FED <input type="checkbox"/> BZ |   | Early Action<br>IA <input type="checkbox"/> PA <input type="checkbox"/> REM <input type="checkbox"/> RI <input type="checkbox"/> SI <input type="checkbox"/> ESI <input type="checkbox"/> |                  | 8. Transfer to:<br>S.D.G. Environmental Services, Inc. |
|  |   | Long Term Action<br>RIFS <input type="checkbox"/> RD <input type="checkbox"/> RA <input type="checkbox"/> O&M <input type="checkbox"/>  |                  | Date Received  |
|  |   | ATTN: <i>[Handwritten]</i>  |                  | Received by:   |
|  |   |   |                  | Contract Number  |
|  |   |   |                  | Price  |

| CLP Sample Numbers (from labels) | A Matrx (from Box 1) Other | B Conc Low Med | C Sample Type Comp/Grab | D Preservative (from Box 2) Other | E RAS Analysis  |                 |                 | F Regional Specific Tracking Number or Tag Numbers | G Station Location Identifier | H Mo/Day/Year/Time Sample Collection | I Corresponding CLP Inorganic Sample No. | J Sampler Initials | K Sample Condition |
|----------------------------------|----------------------------|----------------|-------------------------|-----------------------------------|-----------------|-----------------|-----------------|--|-------------------------------|--------------------------------------|--|--------------------|--------------------|
|                                  |                            |                |                         |                                   | TA (circle one) | TA (circle one) | TA (circle one) |  |                               |                                      |  |                    |                    |
|                                  |                            |                |                         |                                   | PR* 7 14 21     | PR* 7 14 21     | PR* 7 14 21     |  |                               |                                      |  |                    |                    |
| 1                                |                            | LL             |                         | 1                                 | X               | -               | -               | 5-11-00  | 1                             | 4/27/00                              |  |                    |                    |
| 2                                |                            |                |                         | 5                                 | -               | X               | -               | 5-11-00  | 2                             | 4/27/00                              |  |                    |                    |
| 3                                |                            |                |                         | 5                                 | X               | -               | -               | 5-11-00  | 3                             | 4/27/00                              |  |                    |                    |
| 4                                |                            |                |                         | 5                                 | X               | -               | -               | 5-11-00  | 4                             | 4/27/00                              |  |                    |                    |
| 5                                |                            |                |                         | 5                                 | -               | X               | -               | 5-11-00  | 5                             | 4/27/00                              |  |                    |                    |
| 6                                |                            |                |                         | 5                                 | X               | -               | -               | 5-11-00  | 6                             | 4/27/00                              |  |                    |                    |
| 7                                |                            |                |                         | 5                                 | -               | X               | -               | 5-11-00  | 7                             | 4/27/00                              |  |                    |                    |
| 8                                |                            |                |                         | 5                                 | -               | X               | -               | 5-11-00  | 8                             | 4/27/00                              |  |                    |                    |
| 9                                |                            |                |                         | 5                                 | -               | X               | -               | 5-11-00  | 9                             | 4/27/00                              |  |                    |                    |
| 10                               |                            |                |                         | 5                                 | -               | X               | -               | 5-11-00  | 10                            | 4/27/00                              |  |                    |                    |

|                                   |         |                               |          |                               |                                 |
|-----------------------------------|---------|-------------------------------|----------|-------------------------------|---------------------------------|
| Shipment for Case complete? (Y/N) | Page of | VOA MS/MSD Required? Y/N      | Sample # | Additional Sampler Signatures | Chain of Custody Seal Number(s) |
|                                   |         | BNA MS/MSD Required? Y/N      | Sample # |                               |                                 |
|                                   |         | Pest/PCB MS/MSD Required? Y/N | Sample # |                               |                                 |

R provides 7-day data turnaround in addition to preliminary results. Requests for preliminary results will increase analytical costs.

**Chain of Custody Record**

|                              |             |   |                              |  |                           |
|------------------------------|-------------|---|------------------------------|--|---------------------------|
| Relinquished by: (Signature) | Date / Time | Received by: (Signature)                | Relinquished by: (Signature) | Date / Time  | Received by: (Signature)  |
| Relinquished by: (Signature) | Date / Time | Received by: (Signature)                | Relinquished by: (Signature) | Date / Time  | Received by: (Signature)  |
| Relinquished by: (Signature) | Date / Time | Received for Laboratory by: (Signature) | Date / Time                  | Remarks: Is custody seal intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Case: 27986<br>SDG: EDCFC |

Distribution: Blue - Region Copy, White - Lab Copy for Return to SMO, Pink - SMO Copy, Yellow - Lab Copy for Return to Region

See Reverse for Additional Standard Instructions  
\*\*See Reverse for Purpose Code Definitions



United States Environmental Protection Agency  
Contract Laboratory Program

### Organic Traffic Report & Chain of Custody Record (For Organic CLP Analysis)

SDG No.

Case No.

27986

- Matrix**
- Surface Water
  - Ground Water
  - Leachate
  - Field CI
  - Solid Sediment
  - PE Bag
  - PE Bag
  - Other (specify in Column A)
- Preservative**
- HCl
  - HNO<sub>3</sub>
  - H<sub>2</sub>SO<sub>4</sub>
  - H<sub>2</sub>SO<sub>4</sub>
  - Ice only
  - CH<sub>3</sub>OH
  - Other (specify in Column D)
  - Not Preserved

3. Region No. 1 Sampling Co. West

4. Purpose\*\*  
 Lead:  SF,  PRP,  ST,  FED,  BZ  
 Early Action:  IA,  PA,  REM,  RI,  SI,  EST  
 Long Term Action:  RIFS,  RD,  RA,  O&M

5. Date Shipped 4/27/00 Carrier ...

6. Ship To: ...

ATTN: ...

7. Date Received--Received by: 4-27-00 Carol Pinn

Laboratory Contract No. 68-D7-0004 Unit Price 525<sup>xx</sup>00

8. Transfer to: ... Date Received: ...

Received by: ...

Contract Number: ... Price: ...

| CLP Sample Numbers (from labels) | A Matrix (from Box 1) Other | B Conc. Low Med | C Sample Type: Comp./Grab | D Preservative (from Box 2) Other | E RAS Analysis              |                             |                             | F Regional Specific Tracking Number or Tag Numbers | G Station Location Identifier | H Mo/Day/Year/Time Sample Collection | I Corresponding CLP Inorganic Sample No. | J Sampler Initials | K Sample Condition |
|----------------------------------|-----------------------------|-----------------|---------------------------|-----------------------------------|-----------------------------|-----------------------------|-----------------------------|--|-------------------------------|--------------------------------------|--|--------------------|--------------------|
|                                  |                             |                 |                           |                                   | TA (circle one) PR* 7 14 21 | TA (circle one) PR* 7 14 21 | TA (circle one) PR* 7 14 21 |  |                               |                                      |  |                    |                    |
|                                  |                             |                 |                           |                                   | X                           |                             |                             |  |                               |                                      |  |                    |                    |
|                                  |                             |                 |                           |                                   |                             | X                           |                             |  |                               |                                      |  |                    |                    |

shipment for Case complete? (Y/N) ... Page 2 of 2

VOA MS/MSD Required? Y/N Sample #: ...

BNA MS/MSD Required? Y/N Sample #: ...

Pest/PCB MS/MSD Required? Y/N Sample #: ...

Additional Sampler Signatures: ...

Chain of Custody Seal Number(s): ...

RP provides 7-day data turnaround in addition to preliminary results. Requests for preliminary results will increase analytical costs.

### Chain of Custody Record

|                              |             |   |                                 |  |   |
|------------------------------|-------------|---|---------------------------------|--|---|
| Relinquished by: (Signature) | Date / Time | Received by: (Signature)                                  | Relinquished by: (Signature)    | Date / Time                                      | Received by: (Signature)                |
| Relinquished by: (Signature) | Date / Time | Received by: (Signature)                                  | Relinquished by: (Signature)    | Date / Time                                      | Received by: (Signature)                |
| Relinquished by: (Signature) | Date / Time | Received for Laboratory by: (Signature) <u>Carol Pinn</u> | Date / Time <u>4-27-00 4:38</u> | Remarks: Is custody seal intact? <u>Y/N</u> none | <u>Case: 27986</u><br><u>SDG: EDCE6</u> |

Distribution: Blue - Region Copy, White - Lab Copy, Return to SMO, Pink - SMO Copy, Yellow - Lab Copy for Return to Region

See Reverse for Additional Standard Instructions  
\*\*See Reverse for Purpose Code Definition



United States Environmental Protection Agency  
Contract Laboratory Program

### Organic Traffic Report & Chain of Custody Record (For Organic CLP Analysis)

SDG No

Case No

|  |   |                   |              |                 |         |   |               |
|--|---|-------------------|--------------|-----------------|---------|---|---------------|
| 1. Sample Type:<br>1. Surface Water<br>2. Ground Water<br>3. Leachate<br>4. Field Oil<br>5. Soil/Sediment<br>6. PE - Water<br>7. PE - Soil<br>8. Other (specify in Column A) | 2. Preservative:<br>1. HCl<br>2. HNO3<br>3. NaHSO4<br>4. H2SO4<br>5. Ice only<br>6. CH3OH<br>7. Other (specify in Column D)<br>N. Not Preserved | 3. Region No      | Sampling Co. | 5. Date Shipped | Carrier | 7. Date Received--Received by:<br>4-27-00 Carlos Linn |               |
|  |   | Sampler (Name)    |              | Airbill Number  |         | Laboratory Contract No                                | Unit Price    |
|  |   | Sampler Signature |              | 6. Ship To:     |         | 8. Transfer to:                                       | Date Received |
|  |   | 4. Purpose**      |              | ATTN:           |         | Contract Number                                       | Price         |

| CLP Sample Numbers (from labels) | A Matrix (from Box 1)<br>Other | B Conc<br>Low Med | C Sample Type<br>Comp / Grab | D Preservative (from Box 2)<br>Other | E RAS Analysis                 |                                |                                | F Regional Specific Tracking Number or Tag Numbers | G Station Location Identifier | H Mo/Day/Year/Time Sample Collection | I Corresponding CLP Inorganic Sample No. | J Sampler Initials | K Sample Condition |
|----------------------------------|--------------------------------|-------------------|------------------------------|--------------------------------------|--------------------------------|--------------------------------|--------------------------------|--|-------------------------------|--------------------------------------|--|--------------------|--------------------|
|                                  |                                |                   |                              |                                      | TA (circle one)<br>PR* 7 14 21 | TA (circle one)<br>PR* 7 14 21 | TA (circle one)<br>PR* 7 14 21 |  |                               |                                      |  |                    |                    |
|                                  |                                |                   |                              |                                      | VOA                            | BNA                            | PesU PCB                       |  |                               |                                      |  |                    |                    |
| 11/1                             |                                | LL                |                              | 1                                    | X                              |                                |                                | 5-11-00  | 4/27/00                       |                                      |  |                    |                    |
| 11/1                             |                                |                   |                              |                                      |                                | X                              |                                | 5-11-00  | 4/27/00                       |                                      |  |                    |                    |
| 11/1                             |                                |                   |                              | 1                                    | X                              |                                |                                | 5-11-00  | 4/27/00                       |                                      |  |                    |                    |
| 11/1                             |                                |                   |                              | 5                                    |                                | X                              |                                | 5-11-00  | 4/27/00                       |                                      |  |                    |                    |
| 11/1                             |                                |                   |                              | 1                                    | X                              |                                |                                | 5-11-00  | 4/27/00                       |                                      |  |                    |                    |
| 11/1                             | 2                              |                   |                              | 5                                    |                                | X                              |                                | 5-11-00  | 4/27/00                       |                                      |  |                    |                    |
| 11/1                             |                                |                   |                              | 1                                    | X                              |                                |                                | 5-11-00  | 4/27/00                       |                                      |  |                    |                    |
| 11/1                             |                                |                   |                              | 5                                    |                                | X                              |                                | 5-11-00  | 4/27/00                       |                                      |  |                    |                    |

|                                    |             |                               |          |                               |                                 |
|------------------------------------|-------------|-------------------------------|----------|-------------------------------|---------------------------------|
| Equipment for Case Complete? (Y/N) | Page 1 of 2 | VOA MS/MSD Required? Y/N      | Sample # | Additional Sampler Signatures | Chain of Custody Seal Number(s) |
|                                    |             | BNA MS/MSD Required? Y/N      | Sample # |                               |                                 |
|                                    |             | Pest/PCB MS/MSD Required? Y/N | Sample # |                               |                                 |

Lab provides 7-day data turnaround in addition to preliminary results. Requests for preliminary results will increase analytical costs.

### Chain of Custody Record

|                              |             |   |                              |  |                           |
|------------------------------|-------------|---|------------------------------|--|---------------------------|
| Relinquished by: (Signature) | Date / Time | Received by: (Signature)                | Relinquished by: (Signature) | Date / Time  | Received by: (Signature)  |
| Relinquished by: (Signature) | Date / Time | Received by: (Signature)                | Relinquished by: (Signature) | Date / Time  | Received by: (Signature)  |
| Relinquished by: (Signature) | Date / Time | Received for Laboratory by: (Signature) | Date / Time                  | Remarks: Is custody seal intact? <input checked="" type="radio"/> Yes <input type="radio"/> No | Case: 27986<br>SDG: EDCFG |

Distribution: Blue - Region Copy, White - Lab Copy for Return to SMO, Pink - SMO Copy, Yellow - Lab Copy for Return to Region

See Reverse for Additional Standard Instructions  
\*\*See Reverse for Purpose Code Definitions



United States Environmental Protection Agency  
Contract Laboratory Program

### Organic Traffic Report & Chain of Custody Record (For Organic CLP Analysis)

SDG No.

Case No.

|   |   |   |              |                 |         |  |                      |
|---|---|---|--------------|-----------------|---------|--|----------------------|
| 1. Surface Water<br>2. Ground Water<br>3. Leachate<br>4. Field CO<br>5. Soil/Sediment<br>6. PE-water<br>7. PE-air<br>8. Other (specify in Column A) | 1. HCl<br>2. HNO3<br>3. NaHSO4<br>4. H2SO4<br>5. Ice only<br>6. CH3OH<br>7. Other (specify in Column B)<br>N. Not Preserved | 3. Region No.   | Sampling Co. | 5. Date Shipped | Carrier | 7. Date Received—Received by:<br>4-27-00 Carlos Pein |                      |
|   |   | Sampler (Name)<br>M. H. ...   |              | Airbill Number  |         | Laboratory Contract No.<br>68-D7-0004                | Unit Price<br>525.00 |
|   |   | Sampler Signature   |              | 6. Ship To:     |         | 8. Transfer to:                                      | Date Received        |
|   |   | 4. Purpose**<br>Lead: <input checked="" type="checkbox"/> SF, <input type="checkbox"/> PRP, <input type="checkbox"/> ST, <input type="checkbox"/> FED, <input type="checkbox"/> BZ<br>Early Action: <input type="checkbox"/> IA, <input type="checkbox"/> PA, <input type="checkbox"/> REM, <input type="checkbox"/> RI, <input type="checkbox"/> SI, <input type="checkbox"/> ESI<br>Long Term Action: <input type="checkbox"/> RIFS, <input type="checkbox"/> RD, <input type="checkbox"/> RA, <input type="checkbox"/> O&M |              | ATTN:           |         | Received by:<br>Contract Number: Price:              |                      |

| CLP Sample Numbers (from labels) | A Matrx (from Box 1) Other | B Conc Low Med | C Sample Type: Comp / Grab | D Preservative (from Box 2) Other | E RAS Analysis  |                 |                 | F Regional Specific Tracking Number or Tag Numbers | G Station Location Identifier | H Mo/Day/Year/Time Sample Collection | I Corresponding CLP Inorganic Sample No. | J Sampler Initials | K Sample Condition |
|----------------------------------|----------------------------|----------------|----------------------------|-----------------------------------|-----------------|-----------------|-----------------|--|-------------------------------|--------------------------------------|--|--------------------|--------------------|
|                                  |                            |                |                            |                                   | TA (circle one) | TA (circle one) | TA (circle one) |  |                               |                                      |  |                    |                    |
|                                  |                            |                |                            |                                   | PR* 7 14 21     | PR* 7 14 21     | PR* 7 14 21     |  |                               |                                      |  |                    |                    |
|                                  |                            |                |                            |                                   | VOA             | BNA             | Pest/PCB        |  |                               |                                      |  |                    |                    |

|  |                               |                                 |
|--|-------------------------------|---------------------------------|
| Supplement for Case Complete? (Y/N):<br>Page of<br>VOA MS/MSD Required? Y/N Sample #:<br>BNA MS/MSD Required? Y/N Sample #:<br>Pest/PCB MS/MSD Required? Y/N Sample #: | Additional Sampler Signatures | Chain of Custody Seal Number(s) |
|--|-------------------------------|---------------------------------|

ER provides 7-day data turnaround in addition to preliminary results. Requests for preliminary results will increase analytical costs.

### Chain of Custody Record

|                              |             |                                      |                              |  |                           |
|------------------------------|-------------|--------------------------------------|------------------------------|--|---------------------------|
| Relinquished by: (Signature) | Date / Time | Received by: (Signature)             | Relinquished by: (Signature) | Date / Time  | Received by: (Signature)  |
| Relinquished by: (Signature) | Date / Time | Received by: (Signature)             | Relinquished by: (Signature) | Date / Time  | Received by: (Signature)  |
| Relinquished by: (Signature) | Date / Time | Received by: (Signature) Carlos Pein | Date / Time                  | Remarks: Is custody seal intact? <input checked="" type="checkbox"/> Y / <input type="checkbox"/> N / none | Case: 27986<br>SDG: EDCFG |



United States Environmental Protection Agency  
Contract Laboratory Program

**Organic Traffic Report  
& Chain of Custody Record**  
(For Organic CLP Analysis)

SL No

Case No

Mark Sample (Sample)

1. Surface Water  
2. Ground Water  
3. Leachate  
4. Field Col  
5. Soil/Sediment  
6. PE-Water  
7. PE-Sol  
8. Other (Specify in Column A)

HCl  
HNO<sub>3</sub>  
H<sub>2</sub>O<sub>2</sub>  
H<sub>2</sub>SO<sub>4</sub>  
Other (Specify in Column A)  
N. Not Preserved

3. Region No. 15 Sampling Co. WATER

4. Purpose\*\*  
Lead:  SF  PRP  ST  FED  BZ  
Early Action:  IA  PA  REM  RI  SI  ESI  
Long Term Action:  RIFS  RD  RA  O&M

5. Date Shipped 4/27/00 Carrier ...

6. Ship To: ...

7. Date Received--Received by: 4-27-00 Carol Pinn

8. Transfer to: ... Date Received: ...

Received by: ...

Contract Number: 68-D7-0004 Price: 525<sup>00</sup>

Sampler (Name) Lee R. Watson Airbill Number 3201515 0020

Sampler Signature Lee R. Watson

ATTN: ...

| CLP Sample Numbers (from labels) | A Matrix (from Box 1) Other | B Conc Low Med | C Sample Type Comp/Grab | D Preservative (from Box 2) Other | E RAS Analysis              |                             |                             | F Regional Specific Tracking Number or Tag Numbers | G Station Location Identifier | H Mo/Day/Year/Time Sample Collection | I Corresponding CLP Inorganic Sample No. | J Sampler Initials | K Sample Condition |
|----------------------------------|-----------------------------|----------------|-------------------------|-----------------------------------|-----------------------------|-----------------------------|-----------------------------|--|-------------------------------|--------------------------------------|--|--------------------|--------------------|
|                                  |                             |                |                         |                                   | TA (circle one) PR* 7 14 21 | TA (circle one) PR* 7 14 21 | TA (circle one) PR* 7 14 21 |  |                               |                                      |  |                    |                    |
|                                  |                             |                |                         |                                   | VOA                         | BNA                         | Pes/PCB                     |  |                               |                                      |  |                    |                    |
|                                  |                             |                |                         |                                   |                             |                             |                             |  |                               |                                      |  |                    |                    |
|                                  |                             |                |                         |                                   |                             |                             |                             |  |                               |                                      |  |                    |                    |
|                                  |                             |                |                         |                                   |                             |                             |                             |  |                               |                                      |  |                    |                    |
|                                  |                             |                |                         |                                   |                             |                             |                             |  |                               |                                      |  |                    |                    |
|                                  |                             |                |                         |                                   |                             |                             |                             |  |                               |                                      |  |                    |                    |
|                                  |                             |                |                         |                                   |                             |                             |                             |  |                               |                                      |  |                    |                    |
|                                  |                             |                |                         |                                   |                             |                             |                             |  |                               |                                      |  |                    |                    |
|                                  |                             |                |                         |                                   |                             |                             |                             |  |                               |                                      |  |                    |                    |

Shipment for Case complete? (Y/N) ... Page ... of ...

VOA MS/MSD Required? Y/N ... Sample # ...

BNA MS/MSD Required? Y/N ... Sample # ...

Pes/PCB MS/MSD Required? Y/N ... Sample # ...

Additional Sampler Signatures ...

Chain of Custody Seal Number(s) ...

R provides 7-day data turnaround in addition to preliminary results. Requests preliminary results will increase analytical costs.

**Chain of Custody Record**

|                              |             |   |                                 |  |                          |
|------------------------------|-------------|---|---------------------------------|--|--------------------------|
| Relinquished by: (Signature) | Date / Time | Received by: (Signature)                                  | Relinquished by: (Signature)    | Date / Time  | Received by: (Signature) |
| Relinquished by: (Signature) | Date / Time | Received by: (Signature)                                  | Relinquished by: (Signature)    | Date / Time  | Received by: (Signature) |
| Relinquished by: (Signature) | Date / Time | Received for Laboratory by: (Signature) <u>Carol Pinn</u> | Date / Time <u>4-27-00 9:38</u> | Remarks: Is custody seal intact? <u>Y/N/none</u> <u>Case 27486 SDG EDCFG</u> |                          |

Distribution: Blue - Region Copy, White - Lab Copy for Return to SMO, Pink - SMO Copy, Yellow - Lab Copy for Return to Region

See Reverse for Additional Standard Instructions  
\*\*See Reverse for Purpose Code Definitions



United States Environmental Protection Agency  
Contract Laboratory Program

### Organic Traffic Report & Chain of Custody Record (For Organic CLP Analysis)

SDG No

Case No

|   |   |  |              |   |         |   |               |
|---|---|--|--------------|---|---------|---|---------------|
| <b>Matrix (from Column A)</b><br><br>1. Surface Water<br>2. Ground Water<br>3. Leachate<br>4. Field QC<br>5. Soil/Sediment<br>6. PE-water<br>7. PE-soil<br>8. Other (specify in Column A) | <b>2. Preservative (from Column D)</b><br><br>1. HCl<br>2. HNO3<br>3. NaHSO4<br>4. H2SO4<br>5. Ice only<br>6. CH3OH<br>7. Other (specify in Column D)<br>N. Not Preserved | 3. Region No   | Sampling Co. | 5. Date Shipped   | Carrier | 7. Date Received--Received by:<br>4-27-00 Carlos Pina   |               |
|   |   | Sampler (Name)   |              | Airbill Number  |         | Laboratory Contract No.   | Unit Price    |
|   |   | Sampler Signature  |              | 6. Ship To:   |         | 8. Transfer to:   | Date Received |
|   |   | 4. Purpose**<br>Lead <input type="checkbox"/> SF <input type="checkbox"/> PRP <input type="checkbox"/> ST <input type="checkbox"/> FED <input type="checkbox"/> BZ |              | Early Action<br><input type="checkbox"/> IA <input type="checkbox"/> PA <input type="checkbox"/> REM <input type="checkbox"/> RI <input type="checkbox"/> SI <input type="checkbox"/> EST |         | Long Term Action<br><input type="checkbox"/> RIFS <input checked="" type="checkbox"/> RD <input type="checkbox"/> RA <input type="checkbox"/> O&M |  | Received by: |

| CLP Sample Numbers (from labels) | A Matrix (from Box 1) Other | B Conc. Low Med | C Sample Type Comp/Grab | D Preservative (from Box 2) Other | E RAS Analysis  |                 |                 | F Regional Specific Tracking Number or Tag Numbers | G Station Location Identifier | H Mo/Day/Year/Time Sample Collection | I Corresponding CLP Inorganic Sample No. | J Sampler Initials | K Sample Condition |
|----------------------------------|-----------------------------|-----------------|-------------------------|-----------------------------------|-----------------|-----------------|-----------------|--|-------------------------------|--------------------------------------|--|--------------------|--------------------|
|                                  |                             |                 |                         |                                   | TA (circle one) | TA (circle one) | TA (circle one) |  |                               |                                      |  |                    |                    |
|                                  |                             |                 |                         |                                   | PR* 7 14 21     | PR* 7 14 21     | PR* 7 14 21     |  |                               |                                      |  |                    |                    |
|                                  |                             |                 |                         |                                   | VOA             | BNA             | Pes/PCB         |  |                               | 4/27/00                              |  |                    |                    |
|                                  |                             |                 |                         |                                   |                 |                 |                 |  |                               | 4/27/00                              |  |                    |                    |

|                                   |         |                               |           |                               |                                 |
|-----------------------------------|---------|-------------------------------|-----------|-------------------------------|---------------------------------|
| Shipment for Case Complete? (Y/N) | Page of | VOA MS/MSD Required? Y/N      | Sample #: | Additional Sampler Signatures | Chain of Custody Seal Number(s) |
|                                   |         | BNA MS/MSD Required? Y/N      | Sample #: |                               |                                 |
|                                   |         | Pest/PCB MS/MSD Required? Y/N | Sample #: |                               |                                 |

\*PR provides 7-day data turnaround in addition to preliminary results. Requests for preliminary results will increase analytical costs.

### Chain of Custody Record

|                              |             |   |                              |  |                           |
|------------------------------|-------------|---|------------------------------|--|---------------------------|
| Relinquished by: (Signature) | Date / Time | Received by: (Signature)                | Relinquished by: (Signature) | Date / Time  | Received by: (Signature)  |
| Relinquished by: (Signature) | Date / Time | Received by: (Signature)                | Relinquished by: (Signature) | Date / Time  | Received by: (Signature)  |
| Relinquished by: (Signature) | Date / Time | Received for Laboratory by: (Signature) | Date / Time                  | Remarks: Is custody seal intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Case: 27986<br>SDG: EDCFG |

Distribution: Blue - Region Copy, White - Lab Copy, Return to SMO, Pink - SMO Copy, Yellow - Lab Copy for Return to Region

See Reverse for Additional Standard Instructions  
\*\*See Reverse for Purpose Code Definition



United States Environmental Protection Agency  
Contract Laboratory Program

### Organic Traffic Report & Chain of Custody Record (For Organic CLP Analysis)

SDG No

Case No

|   |  |  |             |                 |         |   |                      |
|---|--|--|-------------|-----------------|---------|---|----------------------|
| <b>1. Matrix</b><br>(Enter in Column A)<br><br>1. Surface Water<br>2. Ground Water<br>3. Leachate<br>4. Field QC<br>5. Soil/Sediment<br>6. PE-water<br>7. PE-soil<br>8. Other (specify in Column A) | <b>2. Preservative</b><br>(Enter in Column D)<br><br>1. HCl<br>2. HNO <sub>3</sub><br>3. NaHSO <sub>4</sub><br>4. H <sub>2</sub> SO <sub>4</sub><br>5. Ice only<br>6. CH <sub>3</sub> OH<br>7. Other (specify in Column D)<br>N. Not Preserved | 3. Region No   | Sampling Co | 5. Date Shipped | Carrier | 7. Date Received--Received by<br>4-27-00 <i>Carol Klein</i> |                      |
|   |  | Sampler (Name)   |             | Airbill Number  |         | Laboratory Contract No<br>68-D7-0004                        | Unit Price<br>525.00 |
|   |  | Sampler Signature  |             | 6. Ship To      |         | 8. Transfer to:   |                      |
|   |  | <b>4. Purpose**</b><br>Lead <input type="checkbox"/> SF <input type="checkbox"/> PRP <input type="checkbox"/> ST <input type="checkbox"/> FED <input type="checkbox"/> BZ<br>Early Action <input type="checkbox"/> IA <input type="checkbox"/> PA <input type="checkbox"/> REM <input type="checkbox"/> RI <input type="checkbox"/> SI <input type="checkbox"/> ESI<br>Long Term Action <input type="checkbox"/> RIFS <input type="checkbox"/> RD <input type="checkbox"/> RA <input type="checkbox"/> O&M |             | ATTN:           |         | Received by:  |                      |
| Contract Number   |  | Price  |             |                 |         |   |                      |

| CLP Sample Numbers (from labels) | A Matrix (from Box 1) Other | B Conc Low Med | C Sample Type Comp / C-ab | D Preservative (from Box 2) Other | E RAS Analysis  |                 |                 | F Regional Specific Tracking Number or Tag Numbers | G Station Location Identifier | H Mo/Day/Year/Time Sample Collection | I Corresponding CLP Inorganic Sample No. | J Sampler Initials | K Sample Condition |
|----------------------------------|-----------------------------|----------------|---------------------------|-----------------------------------|-----------------|-----------------|-----------------|--|-------------------------------|--------------------------------------|--|--------------------|--------------------|
|                                  |                             |                |                           |                                   | TA (circle one) | TA (circle one) | TA (circle one) |  |                               |                                      |  |                    |                    |
|                                  |                             |                |                           |                                   | PR* 7 14 21     | PR* 7 14 21     | PR* 7 14 21     |  |                               |                                      |  |                    |                    |
|                                  |                             |                |                           |                                   | VOA             | BNA             | Pest/PCB        |  |                               |                                      |  |                    |                    |
|                                  |                             |                |                           |                                   | X               |                 |                 |  |                               |                                      |  |                    |                    |
|                                  |                             |                |                           |                                   |                 | X               |                 |  |                               |                                      |  |                    |                    |
|                                  |                             |                |                           |                                   |                 |                 |                 |  |                               |                                      |  |                    |                    |
|                                  |                             |                |                           |                                   | X               |                 |                 |  |                               |                                      |  |                    |                    |
|                                  |                             |                |                           |                                   | X               |                 |                 |  |                               |                                      |  |                    |                    |
|                                  |                             |                |                           |                                   | X               |                 |                 |  |                               |                                      |  |                    |                    |
|                                  |                             |                |                           |                                   | X               |                 |                 |  |                               |                                      |  |                    |                    |
|                                  |                             |                |                           |                                   | X               |                 |                 |  |                               |                                      |  |                    |                    |
|                                  |                             |                |                           |                                   | X               |                 |                 |  |                               |                                      |  |                    |                    |
|                                  |                             |                |                           |                                   | X               |                 |                 |  |                               |                                      |  |                    |                    |

|                                   |                           |                               |           |                               |                                 |
|-----------------------------------|---------------------------|-------------------------------|-----------|-------------------------------|---------------------------------|
| Shipment for Case Complete? (Y/N) | Page <u>1</u> of <u>1</u> | VOA MS/MSD Required? Y/N      | Sample #: | Additional Sampler Signatures | Chain of Custody Seal Number(s) |
|                                   |                           | BNA MS/MSD Required? Y/N      | Sample #: |                               |                                 |
|                                   |                           | Pest/PCB MS/MSD Required? Y/N | Sample #: |                               |                                 |

\*PR provides 7-day data turnaround in addition to preliminary results. Requests for preliminary results will increase analytical costs

### Chain of Custody Record

|                              |             |  |                              |  |                           |
|------------------------------|-------------|--|------------------------------|--|---------------------------|
| Relinquished by: (Signature) | Date / Time | Received by: (Signature)                                   | Relinquished by: (Signature) | Date / Time  | Received by: (Signature)  |
| Relinquished by: (Signature) | Date / Time | Received by: (Signature)                                   | Relinquished by: (Signature) | Date / Time  | Received by: (Signature)  |
| Relinquished by: (Signature) | Date / Time | Received for Laboratory by: (Signature) <i>Carol Klein</i> | Date / Time                  | Remarks: Is custody seal intact? <input checked="" type="checkbox"/> Yes / <input type="checkbox"/> None | Case: 27486<br>SDG: EDCFG |

Distribution: Blue - Region Copy, White - Lab Copy for Return to SMO, Pink - SMO Copy, Yellow - Lab Copy for Return to Region

See Reverse for Additional Standard Instructions  
\*\*See Reverse for Purpose Code Definitions  
CLASS 99 002

391570



**Organic Traffic Report  
& Chain of Custody Record**  
(For Organic CLP Analysis)

SDG No

Case No

|   |   |   |              |                 |         |                               |               |
|---|---|---|--------------|-----------------|---------|-------------------------------|---------------|
| <b>1. Matrix</b><br>(Enter in Column A)<br><br>1. Surface Water<br>2. Ground Water<br>3. Leachate<br>4. Field QC<br>5. Soil/Sediment<br>6. PE-water<br>7. PE-soil<br>8. Other (specify in Column A) | <b>2. Preservative:</b><br>(Enter in Column D)<br><br>1. HCl<br>2. HNO3<br>3. NaHSO4<br>4. H2SO4<br>5. Ice only<br>6. CH3OH<br>7. Other (specify in Column D)<br>N. Not Preserved | 3. Region No  | Sampling Co. | 5. Date Shipped | Carrier | 7. Date Received--Received by |               |
|   |   | Sampler (Name)  |              | Airbill Number  |         | Laboratory Contract No        | Unit Price    |
|   |   | Sampler Signature   |              | 6. Ship To:     |         | 8. Transfer to                | Date Received |
|   |   | 4. Purpose**<br>Lead <input checked="" type="checkbox"/> SF <input type="checkbox"/> PRP <input type="checkbox"/> ST <input type="checkbox"/> FED <input type="checkbox"/> BZ<br>Early Action <input type="checkbox"/> IA <input type="checkbox"/> PA <input type="checkbox"/> REM <input type="checkbox"/> RI <input type="checkbox"/> SI <input type="checkbox"/> ESI<br>Long Term Action <input type="checkbox"/> RIFS <input checked="" type="checkbox"/> RD <input type="checkbox"/> RA <input type="checkbox"/> O&M |              | ATTN:           |         | Received by |  | Contract Number | Price |

| CLP Sample Numbers (from labels) | A Matrix (from Box 1)<br>Other | B Conc<br>Low Med | C Sample Type<br>Comp / Grab | D Preservative (from Box 2)<br>Other | E RAS Analysis                        |                                       |  | F Regional Specific Tracking Number or Tag Numbers | G Station Location Identifier | H Mo/Day/Year/Time Sample Collection | I Corresponding CLP Inorganic Sample No | J Sampler Initials | K Sample Condition |
|----------------------------------|--------------------------------|-------------------|------------------------------|--------------------------------------|---------------------------------------|---------------------------------------|--|--|-------------------------------|--------------------------------------|---|--------------------|--------------------|
|                                  |                                |                   |                              |                                      | TA (circle one)<br>PR* 7 14 21<br>VOA | TA (circle one)<br>PR* 7 14 21<br>BNA | TA (circle one)<br>PR* 7 14 21<br>Pest/PCB |  |                               |                                      |   |                    |                    |
|                                  |                                |                   |                              |                                      | X                                     |                                       |  |  |                               |                                      |   |                    |                    |
|                                  |                                |                   |                              |                                      |                                       | X                                     |  |  |                               |                                      |   |                    |                    |

|                                   |         |  |                               |                                 |
|-----------------------------------|---------|--|-------------------------------|---------------------------------|
| Shipment for Case Complete? (Y/N) | Page of | VOA MS/MSD Required? <u>Y/N</u> Sample #:      | Additional Sampler Signatures | Chain of Custody Seal Number(s) |
|                                   |         | BNA MS/MSD Required? <u>Y/N</u> Sample #:      |                               |                                 |
|                                   |         | Pest/PCB MS/MSD Required? <u>Y/N</u> Sample #: |                               |                                 |

\*PR provides 7-day data turnaround in addition to preliminary results. Requests for preliminary results will increase analytical costs.

**Chain of Custody Record**

|                              |             |   |                              |   |                          |
|------------------------------|-------------|---|------------------------------|---|--------------------------|
| Relinquished by: (Signature) | Date / Time | Received by: (Signature)                | Relinquished by: (Signature) | Date / Time   | Received by: (Signature) |
| Relinquished by: (Signature) | Date / Time | Received by: (Signature)                | Relinquished by: (Signature) | Date / Time   | Received by: (Signature) |
| Relinquished by: (Signature) | Date / Time | Received for Laboratory by: (Signature) | Date / Time                  | Remarks: Is custody seal intact? <u>Y/N</u> none Case: 27986 SDG: EDCE6 |                          |

Distribution: Blue - Region Copy    Pink - SMO Copy  
White - Lab Copy for Return to SMO    Yellow - Lab Copy for Return to Region

See Reverse for Additional Standard Instructions  
\*\*See Reverse for Purpose Code Definitions  
CLASS 99

391567



United States Environmental Protection Agency  
Contract Laboratory Program

**Organic Traffic Report  
& Chain of Custody Record**  
(For Organic CLP Analysis)

SDG No

Case No

|   |  |  |             |                |         |                              |               |
|---|--|--|-------------|----------------|---------|------------------------------|---------------|
| <b>1. Matrix</b><br>(Enter in Column A)<br><br>1. Surface Water<br>2. Ground Water<br>3. Leachate<br>4. Field QC<br>5. Soil/Sediment<br>6. PE-water<br>7. PE-soil<br>8. Other (specify in Column A) | <b>2. Preservative</b><br>(Enter in Column D)<br><br>1. HCl<br>2. HNO3<br>3. NaHSO4<br>4. H2SO4<br>5. Ice only<br>6. CH3OH<br>7. Other (specify in Column D)<br>N. Not Preserved | 3 Region No  | Sampling Co | 5 Date Shipped | Carrier | 7 Date Received--Received by |               |
|   |  | Sampler (Name)   |             | Airbill Number |         | Laboratory Contract No       | Unit Price    |
|   |  | Sampler Signature  |             | 6 Ship To      |         | 8 Transfer to                | Date Received |
|   |  | <b>4 Purpose**</b><br>Lead <input type="checkbox"/> SF <input type="checkbox"/> PRP <input type="checkbox"/> ST <input type="checkbox"/> FED <input type="checkbox"/> BZ<br>Early Action <input type="checkbox"/> IA <input type="checkbox"/> PA <input type="checkbox"/> REM <input type="checkbox"/> RI <input type="checkbox"/> SI <input type="checkbox"/> ESI<br>Long Term Action <input type="checkbox"/> RIF S <input type="checkbox"/> RD <input type="checkbox"/> RA <input type="checkbox"/> OAM |             | ATTN:          |         | Contract Number              | Price         |

| CLP Sample Numbers (from labels) | A Matrix (from Box 1) Other | B Conc Low Med | C Sample Type Comp / Grab | D Preservative (from Box 2) Other | E RAS Analysis              |                             |                             | F Regional Specific Tracking Number or Tag Numbers | G Station Location Identifier | H Mo/Day/Year/Time Sample Collection | I Corresponding CLP Inorganic Sample No | J Sampler Initials | K Sample Condition |
|----------------------------------|-----------------------------|----------------|---------------------------|-----------------------------------|-----------------------------|-----------------------------|-----------------------------|--|-------------------------------|--------------------------------------|---|--------------------|--------------------|
|                                  |                             |                |                           |                                   | TA (circle one) PR* 7 14 21 | TA (circle one) PR* 7 14 21 | TA (circle one) PR* 7 14 21 |  |                               |                                      |   |                    |                    |
|                                  |                             |                |                           |                                   | VOA                         | BNA                         | Pes/PCB                     |  |                               |                                      |   |                    |                    |
|                                  |                             |                |                           |                                   |                             |                             |                             |  |                               |                                      |   |                    |                    |
|                                  |                             |                |                           |                                   |                             |                             |                             |  |                               |                                      |   |                    |                    |
|                                  |                             |                |                           |                                   |                             |                             |                             |  |                               |                                      |   |                    |                    |
|                                  |                             |                |                           |                                   |                             |                             |                             |  |                               |                                      |   |                    |                    |
|                                  |                             |                |                           |                                   |                             |                             |                             |  |                               |                                      |   |                    |                    |
|                                  |                             |                |                           |                                   |                             |                             |                             |  |                               |                                      |   |                    |                    |
|                                  |                             |                |                           |                                   |                             |                             |                             |  |                               |                                      |   |                    |                    |
|                                  |                             |                |                           |                                   |                             |                             |                             |  |                               |                                      |   |                    |                    |

|                                   |         |                                       |                               |                                 |
|-----------------------------------|---------|---------------------------------------|-------------------------------|---------------------------------|
| Shipment for Case Complete? (Y/N) | Page of | VOA MS/MSD Required? Y/N Sample #     | Additional Sampler Signatures | Chain of Custody Seal Number(s) |
|                                   |         | BNA MS/MSD Required? Y/N Sample #     |                               |                                 |
|                                   |         | Pes/PCB MS/MSD Required? Y/N Sample # |                               |                                 |

\*PR provides 7-day data turnaround in addition to preliminary results. Requests for preliminary results will increase analytical costs.

**Chain of Custody Record**

|                             |             |  |                             |   |                           |
|-----------------------------|-------------|--|-----------------------------|---|---------------------------|
| Relinquished by (Signature) | Date / Time | Received by (Signature)                | Relinquished by (Signature) | Date / Time   | Received by (Signature)   |
|                             |             |  |                             |   |                           |
| Relinquished by (Signature) | Date / Time | Received by (Signature)                | Relinquished by (Signature) | Date / Time   | Received by (Signature)   |
|                             |             |  |                             |   |                           |
| Relinquished by (Signature) | Date / Time | Received for Laboratory by (Signature) | Date / Time                 | Remarks: Is custody seal intact? <input checked="" type="checkbox"/> N/none | Case: 27986<br>SDG: EDCFB |
|                             |             | Carlor Ficin                           | 4-27-00 9:38                |   |                           |

Distribution: Blue - Region Copy, White - Lab Copy for Return to SMO, Pink - SMO Copy, Yellow - Lab Copy for Return to Region

See Reverse for Additional Standard Instructions  
\*\*See Reverse for Purpose Code Definitions

351571

# PDP ANALYTICAL SERVICES

1680 Lake Front Circle, Suite B • The Woodlands, TX 77380 • Phone (281)363-2233

|                         |                |               |
|-------------------------|----------------|---------------|
| Contract No. 68-D7-0004 | Case No. 27986 | SDG No. EDCF6 |
|-------------------------|----------------|---------------|

## SDG NARRATIVE

MAY 19 2000

### SAMPLE RECEIPT :

04/27/00 @ 09:38 A.M. - Received three shipments consisting of three coolers: Cooler 1 temperature : 4°C. Cooler 2 temperature : 4°C. Cooler 3 temperature : 4°C. (COC391570, COC391567, COC391571, COC391575, COC391569, COC391535) contained the following:

EDPM3 - 2-1L amber, 3-40mL Voa Vials.  
EDPM6 - 2-1L amber, 3-40mL Voa Vials.  
EDPM7 - 2-1L amber, 3-40mL Voa Vials.  
EDPM8 - 2-40mL Voa Vials.  
EDPN5 - 2-1L amber, 3-40mL Voa Vials.  
EDPN6 - 2-1L amber, 3-40mL Voa Vials.  
EDPN7 - 2-1L amber, 3-40mL Voa Vials.  
EDCF6 - 2-1L amber, 3-40mL Voa Vials.  
EDCF7 - 2-1L amber, 3-40mL Voa Vials.  
EDCF8 - 2-1L amber, 3-40mL Voa Vials.  
EDCG1 - 2-40mL Voa Vials.  
EDCF9 - 2-1L amber, 3-40mL Voa Vials.  
EDPN1 - 2-1L amber, 3-40mL Voa Vials.  
EDPN2 - 2-1L amber, 3-40mL Voa Vials.  
EDPN3 - 2-40mL Voa Vials.  
EDPN4 - 2-1L amber, 3-40mL Voa Vials.  
EDPN0 - 2-1L amber, 3-40mL Voa Vials.  
EDCG3 - 2-1L amber, 3-40mL Voa Vials.

No other problems were encountered during sample receipt.

### VOLATILES:

All samples were analyzed on a HP 5973 GC/MS using a 60 meters long DB-624 column having a 0.53mm ID and 3um film thickness. The trap used was a OV-1/Tenax/Silica Gel (Tekmar #6. Cat 14-1755-003) . A 20 mL purge volume was used for all samples, blanks and standards. The concentrations of the standards and spikes were maintained at the levels required by the Statement of Work (SOW).

The following field samples are analyzed for volatiles in this SDG. The pH of the samples is listed against them.

|       |     |       |     |
|-------|-----|-------|-----|
| EDPM3 | 2.0 | EDPN7 | 2.0 |
| EDPM8 | 5.0 | EDCF6 | 2.0 |
| EDPM6 | 2.0 | EDCF7 | 2.0 |
| EDCG1 | 2.0 | EDCF8 | 2.0 |
| EDPM7 | 2.0 | EDCF9 | 2.0 |

OLCA  
 LOW CONC. WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004

Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: EDCF6

|    | EPA<br>SAMPLE NO. | BFB<br>%REC # | OTHER | TOT<br>OUT |
|----|-------------------|---------------|-------|------------|
| 01 | VBLK94            | 101           |       | 0          |
| 02 | VLCS94            | 100           |       | 0          |
| 03 | EDPM3             | 99            |       | 0          |
| 04 | EDPM8             | 98            |       | 0          |
| 05 | EDPM6             | 103           |       | 0          |
| 06 | EDCG1             | 104           |       | 0          |
| 07 | EDPM7             | 104           |       | 0          |
| 08 | EDPN3             | 104           |       | 0          |
| 09 | EDPN5             | 106           |       | 0          |
| 10 | EDCG3             | 103           |       | 0          |
| 11 | EDPN6             | 104           |       | 0          |
| 12 | VIBLK01           | 104           |       | 0          |
| 13 | EDPN7             | 105           |       | 0          |
| 14 | VBLK95            | 99            |       | 0          |
| 15 | VLCS95            | 97            |       | 0          |
| 16 | EDCF6             | 101           |       | 0          |
| 17 | VIBLK03           | 100           |       | 0          |
| 18 | EDCF7             | 100           |       | 0          |
| 19 | VIBLK04           | 100           |       | 0          |
| 20 | EDCF8             | 101           |       | 0          |
| 21 | VIBLK05           | 101           |       | 0          |
| 22 | EDCF9             | 101           |       | 0          |
| 23 | VIBLK06           | 102           |       | 0          |
| 24 | EDPN1             | 102           |       | 0          |
| 25 | EDPN2             | 101           |       | 0          |
| 26 | EDPN4             | 102           |       | 0          |
| 27 | EDPN0             | 102           |       | 0          |
| 28 | VBLK97            | 108           |       | 0          |
| 29 | VLCS97            | 106           |       | 0          |
| 30 | VHBLK01           | 110           |       | 0          |

QC LIMITS  
 %REC

BFB = Bromofluorobenzene (80-120)

# Column to be used to flag recovery values  
 \* Values outside of contract required QC limits

3LCA  
 LOW CONC. WATER VOLATILE LAB CONTROL SAMPLE RECOVERY

EPA SAMPLE NO.

VLCS94

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004

Lab Code: PDP                      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: EDCF6

Lab Sample ID: GVLCS058                      LCS Lot No.: 60

Lab File ID: G0892                      Date Analyzed: 04/27/00

Purge Volume: 20.0                      (mL)                      Dilution Factor: 1.0

LCS Aliquot: 10.0                      (uL)

| COMPOUND                | AMOUNT<br>ADDED<br>(ng) | AMOUNT<br>RECOVERED<br>(ng) | %REC # | QC<br>LIMITS |
|-------------------------|-------------------------|-----------------------------|--------|--------------|
| Vinyl chloride          | 100                     | 72                          | 72     | 60-140       |
| 1,2-Dichloroethane      | 100                     | 97                          | 97     | 60-140       |
| Carbon tetrachloride    | 100                     | 89                          | 89     | 60-140       |
| 1,2-Dichloropropane     | 100                     | 91                          | 91     | 60-140       |
| Trichloroethene         | 100                     | 89                          | 89     | 60-140       |
| 1,1,2-Trichloroethane   | 100                     | 89                          | 89     | 60-140       |
| Benzene                 | 100                     | 93                          | 93     | 60-140       |
| cis-1,3-Dichloropropene | 100                     | 90                          | 90     | 60-140       |
| Bromoform               | 100                     | 87                          | 87     | 60-140       |
| Tetrachloroethene       | 100                     | 82                          | 82     | 60-140       |
| 1,2-Dibromoethane       | 100                     | 83                          | 83     | 60-140       |
| 1,4-Dichlorobenzene     | 100                     | 78                          | 78     | 60-140       |

# Column to be used to flag LCS recovery with an asterisk.

\* Values outside of QC limits.

LCS Recovery:    0    outside limits out of    12    total.

COMMENTS: \_\_\_\_\_  
 \_\_\_\_\_

3LCA  
 LOW CONC. WATER VOLATILE LAB CONTROL SAMPLE RECOVERY

EPA SAMPLE NO.

VLC95

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: EDCF6

Lab Sample ID: GVLCS059

LCS Lot No.: 60

Lab File ID: G0909

Date Analyzed: 04/28/00

Purge Volume: 20.0 (mL)

Dilution Factor: 1.0

LCS Aliquot: 10.0 (uL)

| COMPOUND                | AMOUNT<br>ADDED<br>(ng) | AMOUNT<br>RECOVERED<br>(ng) | %REC # | QC<br>LIMITS |
|-------------------------|-------------------------|-----------------------------|--------|--------------|
| Vinyl chloride          | 100                     | 72                          | 72     | 60-140       |
| 1,2-Dichloroethane      | 100                     | 84                          | 84     | 60-140       |
| Carbon tetrachloride    | 100                     | 87                          | 87     | 60-140       |
| 1,2-Dichloropropane     | 100                     | 85                          | 85     | 60-140       |
| Trichloroethene         | 100                     | 87                          | 87     | 60-140       |
| 1,1,2-Trichloroethane   | 100                     | 81                          | 81     | 60-140       |
| Benzene                 | 100                     | 91                          | 91     | 60-140       |
| cis-1,3-Dichloropropene | 100                     | 82                          | 82     | 60-140       |
| Bromoform               | 100                     | 72                          | 72     | 60-140       |
| Tetrachloroethene       | 100                     | 84                          | 84     | 60-140       |
| 1,2-Dibromoethane       | 100                     | 74                          | 74     | 60-140       |
| 1,4-Dichlorobenzene     | 100                     | 69                          | 69     | 60-140       |

# Column to be used to flag LCS recovery with an asterisk.

\* Values outside of QC limits.

LCS Recovery: 0 outside limits out of 12 total.

COMMENTS: \_\_\_\_\_  
 \_\_\_\_\_

3LCA  
 LOW CONC. WATER VOLATILE LAB CONTROL SAMPLE RECOVERY

EPA SAMPLE NO.

VLCS97

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.:

SDG No.: EDCF6

Lab Sample ID: GVLCS061

LCS Lot No.: 60

Lab File ID: G0942

Date Analyzed: 05/02/00

Purge Volume: 20.0 (mL)

Dilution Factor: 1.0

LCS Aliquot: 10.0 (uL)

| COMPOUND                | AMOUNT<br>ADDED<br>(ng) | AMOUNT<br>RECOVERED<br>(ng) | %REC # | QC<br>LIMITS |
|-------------------------|-------------------------|-----------------------------|--------|--------------|
| Vinyl chloride          | 100                     | 80                          | 80     | 60-140       |
| 1,2-Dichloroethane      | 100                     | 97                          | 97     | 60-140       |
| Carbon tetrachloride    | 100                     | 86                          | 86     | 60-140       |
| 1,2-Dichloropropane     | 100                     | 87                          | 87     | 60-140       |
| Trichloroethene         | 100                     | 88                          | 88     | 60-140       |
| 1,1,2-Trichloroethane   | 100                     | 85                          | 85     | 60-140       |
| Benzene                 | 100                     | 94                          | 94     | 60-140       |
| cis-1,3-Dichloropropene | 100                     | 82                          | 82     | 60-140       |
| Bromoform               | 100                     | 71                          | 71     | 60-140       |
| Tetrachloroethene       | 100                     | 84                          | 84     | 60-140       |
| 1,2-Dibromoethane       | 100                     | 74                          | 74     | 60-140       |
| 1,4-Dichlorobenzene     | 100                     | 69                          | 69     | 60-140       |

# Column to be used to flag LCS recovery with an asterisk.

\* Values outside of QC limits.

LCS Recovery: 0 outside limits out of 12 total.

COMMENTS:

4LCA  
 LOW CONC. WATER VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK94

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: EDCF6

Lab Sample ID: GVBLK058

Date Analyzed: 04/27/00

Lab File ID: G0891

Time Analyzed: 1819

Instrument ID: G-HP5973

GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND LCS:

|    | EPA<br>SAMPLE NO. | LAB<br>SAMPLE ID | LAB<br>FILE ID | TIME<br>ANALYZED |
|----|-------------------|------------------|----------------|------------------|
| 01 | VLCS94            | GVLCS058         | G0892          | 1907             |
| 02 | EDPM3             | 6033.002         | G0893          | 1954             |
| 03 | EDPM8             | 6033.005         | G0894          | 2042             |
| 04 | EDPM6             | 6033.003         | G0895          | 2129             |
| 05 | EDCG1             | 6033.012         | G0896          | 2216             |
| 06 | EDPM7             | 6033.004         | G0897          | 2303             |
| 07 | EDPN3             | 6033.016         | G0898          | 2351             |
| 08 | EDPN5             | 6033.006         | G0899          | 0038             |
| 09 | EDCG3             | 6033.019         | G0900          | 0124             |
| 10 | EDPN6             | 6033.007         | G0901          | 0211             |
| 11 | VIBLK01           | VIBLK01          | G0902          | 0258             |
| 12 | EDPN7             | 6033.008         | G0903          | 0345             |
| 13 |                   |                  |                |                  |
| 14 |                   |                  |                |                  |
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| 30 |                   |                  |                |                  |

COMMENTS: \_\_\_\_\_

4LCA  
 LOW CONC. WATER VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK95

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: EDCF6

Lab Sample ID: GVBLK059

Date Analyzed: 04/28/00

Lab File ID: G0908

Time Analyzed: 0657

Instrument ID: G-HP5973

GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND LCS:

|    | EPA<br>SAMPLE NO. | LAB<br>SAMPLE ID | LAB<br>FILE ID | TIME<br>ANALYZED |
|----|-------------------|------------------|----------------|------------------|
| 01 | VLCS95            | GVLCS059         | G0909          | 0744             |
| 02 | EDCF6             | 6033.009         | G0910          | 0831             |
| 03 | VIBLK03           | VIBLK03          | G0911          | 0917             |
| 04 | EDCF7             | 6033.010         | G0912          | 1004             |
| 05 | VIBLK04           | VIBLK04          | G0913          | 1051             |
| 06 | EDCF8             | 6033.011         | G0914          | 1138             |
| 07 | VIBLK05           | VIBLK05          | G0915          | 1225             |
| 08 | EDCF9             | 6033.013         | G0916          | 1312             |
| 09 | VIBLK06           | VIBLK06          | G0917          | 1359             |
| 10 | EDPN1             | 6033.014         | G0918          | 1447             |
| 11 | EDPN2             | 6033.015         | G0919          | 1534             |
| 12 | EDPN4             | 6033.017         | G0920          | 1621             |
| 13 | EDPN0             | 6033.018         | G0921          | 1708             |
| 14 |                   |                  |                |                  |
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COMMENTS: \_\_\_\_\_

4LCA  
 LOW CONC. WATER VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK97

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.:

SDG No.: EDCF6

Lab Sample ID: GVBLK061

Date Analyzed: 05/02/00

Lab File ID: G0941

Time Analyzed: 0028

Instrument ID: G-HP5973

GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND LCS:

|    | EPA<br>SAMPLE NO. | LAB<br>SAMPLE ID | LAB<br>FILE ID | TIME<br>ANALYZED |
|----|-------------------|------------------|----------------|------------------|
| 01 | VLCS97            | GVLCS061         | G0942          | 0114             |
| 02 | VHBLK01           | 6033.001         | G0944          | 0248             |
| 03 |                   |                  |                |                  |
| 04 |                   |                  |                |                  |
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| 30 |                   |                  |                |                  |

COMMENTS: \_\_\_\_\_

1LCA  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK95

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.:

SDG No.: EDCF6

Lab Sample ID: GVBLK059

Date Received:

Lab File ID: G0908

Date Analyzed: 04/28/00

Purge Volume: 20 (mL)

Dilution Factor: 1.0

GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

| CAS NO.    | COMPOUND                    | CONCENTRATION (ug/L) | Q |
|------------|-----------------------------|----------------------|---|
| 74-87-3    | Chloromethane               | 1                    | U |
| 74-83-9    | Bromomethane                | 1                    | U |
| 75-01-4    | Vinyl chloride              | 1                    | U |
| 75-00-3    | Chloroethane                | 1                    | U |
| 75-09-2    | Methylene chloride          | 2                    | U |
| 67-64-1    | Acetone                     | 5                    | U |
| 75-15-0    | Carbon disulfide            | 1                    | U |
| 75-35-4    | 1,1-Dichloroethene          | 1                    | U |
| 75-34-3    | 1,1-Dichloroethane          | 1                    | U |
| 156-59-2   | cis-1,2-Dichloroethene      | 1                    | U |
| 156-60-5   | trans-1,2-Dichloroethene    | 1                    | U |
| 67-66-3    | Chloroform                  | 1                    | U |
| 107-06-2   | 1,2-Dichloroethane          | 1                    | U |
| 78-93-3    | 2-Butanone                  | 5                    | U |
| 74-97-5    | Bromochloromethane          | 1                    | U |
| 71-55-6    | 1,1,1-Trichloroethane       | 1                    | U |
| 56-23-5    | Carbon tetrachloride        | 1                    | U |
| 75-27-4    | Bromodichloromethane        | 1                    | U |
| 78-87-5    | 1,2-Dichloropropane         | 1                    | U |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1                    | U |
| 79-01-6    | Trichloroethene             | 1                    | U |
| 124-48-1   | Dibromochloromethane        | 1                    | U |
| 79-00-5    | 1,1,2-Trichloroethane       | 1                    | U |
| 71-43-2    | Benzene                     | 1                    | U |
| 10061-02-6 | trans-1,3-Dichloropropene   | 1                    | U |
| 75-25-2    | Bromoform                   | 1                    | U |
| 108-10-1   | 4-Methyl-2-pentanone        | 5                    | U |
| 591-78-6   | 2-Hexanone                  | 5                    | U |
| 127-18-4   | Tetrachloroethene           | 1                    | U |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 1                    | U |
| 106-93-4   | 1,2-Dibromoethane           | 1                    | U |
| 108-88-3   | Toluene                     | 1                    | U |
| 108-90-7   | Chlorobenzene               | 1                    | U |
| 100-41-4   | Ethylbenzene                | 1                    | U |
| 100-42-5   | Styrene                     | 1                    | U |
| 1330-20-7  | Xylenes (total)             | 1                    | J |
| 541-73-1   | 1,3-Dichlorobenzene         | 1                    | U |
| 106-46-7   | 1,4-Dichlorobenzene         | 1                    | U |
| 95-50-1    | 1,2-Dichlorobenzene         | 1                    | U |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | 1                    | U |
| 120-82-1   | 1,2,4-Trichlorobenzene      | 1                    | U |

1LCE  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK95

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004

Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: EDCF6

Lab Sample ID: GVBLK059      Date Received: \_\_\_\_\_

Lab File ID: G0908      Date Analyzed: 04/28/00

Purge Volume: 20 (mL)      Dilution Factor: 1.0

GC Column: DB-624      ID: 0.53 (mm) Length: 60 (m)

Number TICs found: 0

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC.<br>(ug/L) | Q |
|------------|---------------|----|----------------------|---|
| 1.         |               |    |                      |   |
| 2.         |               |    |                      |   |
| 3.         |               |    |                      |   |
| 4.         |               |    |                      |   |
| 5.         |               |    |                      |   |
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| 13.        |               |    |                      |   |
| 14.        |               |    |                      |   |
| 15.        |               |    |                      |   |
| 16.        |               |    |                      |   |
| 17.        |               |    |                      |   |
| 18.        |               |    |                      |   |
| 19.        |               |    |                      |   |
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| 24.        |               |    |                      |   |
| 25.        |               |    |                      |   |
| 26.        |               |    |                      |   |
| 27.        |               |    |                      |   |
| 28.        |               |    |                      |   |
| 29.        |               |    |                      |   |
| 30.        |               |    |                      |   |

1LCA  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK97

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: EDCF6

Lab Sample ID: GVBLK061

Date Received: \_\_\_\_\_

Lab File ID: G0941

Date Analyzed: 05/02/00

Purge Volume: 20 (mL)

Dilution Factor: 1.0

GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

| CAS NO.    | COMPOUND                    | CONCENTRATION<br>(ug/L) | Q |
|------------|-----------------------------|-------------------------|---|
| 74-87-3    | Chloromethane               | 1                       | U |
| 74-83-9    | Bromomethane                | 1                       | U |
| 75-01-4    | Vinyl chloride              | 1                       | U |
| 75-00-3    | Chloroethane                | 1                       | U |
| 75-09-2    | Methylene chloride          | 2                       | U |
| 67-64-1    | Acetone                     | 5                       | U |
| 75-15-0    | Carbon disulfide            | 1                       | U |
| 75-35-4    | 1,1-Dichloroethene          | 1                       | U |
| 75-34-3    | 1,1-Dichloroethane          | 1                       | U |
| 156-59-2   | cis-1,2-Dichloroethene      | 1                       | U |
| 156-60-5   | trans-1,2-Dichloroethene    | 1                       | U |
| 67-66-3    | Chloroform                  | 1                       | U |
| 107-06-2   | 1,2-Dichloroethane          | 1                       | U |
| 78-93-3    | 2-Butanone                  | 5                       | U |
| 74-97-5    | Bromochloromethane          | 1                       | U |
| 71-55-6    | 1,1,1-Trichloroethane       | 1                       | U |
| 56-23-5    | Carbon tetrachloride        | 1                       | U |
| 75-27-4    | Bromodichloromethane        | 1                       | U |
| 78-87-5    | 1,2-Dichloropropane         | 1                       | U |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1                       | U |
| 79-01-6    | Trichloroethene             | 1                       | U |
| 124-48-1   | Dibromochloromethane        | 1                       | U |
| 79-00-5    | 1,1,2-Trichloroethane       | 1                       | U |
| 71-43-2    | Benzene                     | 1                       | U |
| 10061-02-6 | trans-1,3-Dichloropropene   | 1                       | U |
| 75-25-2    | Bromoform                   | 1                       | U |
| 108-10-1   | 4-Methyl-2-pentanone        | 5                       | U |
| 591-78-6   | 2-Hexanone                  | 5                       | U |
| 127-18-4   | Tetrachloroethene           | 1                       | U |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 1                       | U |
| 106-93-4   | 1,2-Dibromoethane           | 1                       | U |
| 108-88-3   | Toluene                     | 1                       | U |
| 108-90-7   | Chlorobenzene               | 1                       | U |
| 100-41-4   | Ethylbenzene                | 1                       | U |
| 100-42-5   | Styrene                     | 1                       | U |
| 1330-20-7  | Xylenes (total)             | 1                       | U |
| 541-73-1   | 1,3-Dichlorobenzene         | 1                       | U |
| 106-46-7   | 1,4-Dichlorobenzene         | 1                       | U |
| 95-50-1    | 1,2-Dichlorobenzene         | 1                       | U |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | 1                       | U |
| 120-82-1   | 1,2,4-Trichlorobenzene      | 1                       | U |

1LCE  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK97

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004

Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: EDCF6

Lab Sample ID: GVBLK061      Date Received: \_\_\_\_\_

Lab File ID: G0941      Date Analyzed: 05/02/00

Purge Volume: 20 (mL)      Dilution Factor: 1.0

GC Column: DB-624      ID: 0.53 (mm) Length: 60 (m)

Number TICs found: 0

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC.<br>(ug/L) | Q |
|------------|---------------|----|----------------------|---|
| 1.         |               |    |                      |   |
| 2.         |               |    |                      |   |
| 3.         |               |    |                      |   |
| 4.         |               |    |                      |   |
| 5.         |               |    |                      |   |
| 6.         |               |    |                      |   |
| 7.         |               |    |                      |   |
| 8.         |               |    |                      |   |
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| 14.        |               |    |                      |   |
| 15.        |               |    |                      |   |
| 16.        |               |    |                      |   |
| 17.        |               |    |                      |   |
| 18.        |               |    |                      |   |
| 19.        |               |    |                      |   |
| 20.        |               |    |                      |   |
| 21.        |               |    |                      |   |
| 22.        |               |    |                      |   |
| 23.        |               |    |                      |   |
| 24.        |               |    |                      |   |
| 25.        |               |    |                      |   |
| 26.        |               |    |                      |   |
| 27.        |               |    |                      |   |
| 28.        |               |    |                      |   |
| 29.        |               |    |                      |   |
| 30.        |               |    |                      |   |

1LCA  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VHBLK01

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: EDCF6

Lab Sample ID: 6033.001

Date Received: 04/27/00

Lab File ID: G0944

Date Analyzed: 05/02/00

Purge Volume: 20 (mL)

Dilution Factor: 1.0

GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

| CAS NO.    | COMPOUND                    | CONCENTRATION<br>(ug/L) | Q |
|------------|-----------------------------|-------------------------|---|
| 74-87-3    | Chloromethane               | 1                       | U |
| 74-83-9    | Bromomethane                | 1                       | U |
| 75-01-4    | Vinyl chloride              | 1                       | U |
| 75-00-3    | Chloroethane                | 1                       | U |
| 75-09-2    | Metaylene chloride          | 2                       | U |
| 67-64-1    | Acetone                     | 5                       | U |
| 75-15-0    | Carbon disulfide            | 1                       | U |
| 75-35-4    | 1,1-Dichloroethene          | 1                       | U |
| 75-34-3    | 1,1-Dichloroethane          | 1                       | U |
| 156-59-2   | cis-1,2-Dichloroethene      | 1                       | U |
| 156-60-5   | trans-1,2-Dichloroethene    | 1                       | U |
| 67-66-3    | Chloroform                  | 1                       | U |
| 107-06-2   | 1,2-Dichloroethane          | 1                       | U |
| 78-93-3    | 2-Butanone                  | 5                       | U |
| 74-97-5    | Bromochloromethane          | 1                       | U |
| 71-55-6    | 1,1,1-Trichloroethane       | 1                       | U |
| 56-23-5    | Carbon tetrachloride        | 1                       | U |
| 75-27-4    | Bromodichloromethane        | 1                       | U |
| 78-87-5    | 1,2-Dichloropropane         | 1                       | U |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1                       | U |
| 79-01-6    | Trichloroethene             | 1                       | U |
| 124-48-1   | Dibromochloromethane        | 1                       | U |
| 79-00-5    | 1,1,2-Trichloroethane       | 1                       | U |
| 71-43-2    | Benzene                     | 1                       | U |
| 10061-02-6 | trans-1,3-Dichloropropene   | 1                       | U |
| 75-25-2    | Bromoform                   | 1                       | U |
| 108-10-1   | 4-Methyl-2-pentanone        | 5                       | U |
| 591-78-6   | 2-Hexanone                  | 5                       | U |
| 127-18-4   | Tetrachloroethene           | 1                       | U |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 1                       | U |
| 106-93-4   | 1,2-Dibromoethane           | 1                       | U |
| 108-88-3   | Toluene                     | 1                       | U |
| 108-90-7   | Chlorobenzene               | 1                       | U |
| 100-41-4   | Ethylbenzene                | 1                       | U |
| 100-42-5   | Styrene                     | 1                       | U |
| 1330-20-7  | Xylenes (total)             | 1                       | U |
| 541-73-1   | 1,3-Dichlorobenzene         | 1                       | U |
| 106-46-7   | 1,4-Dichlorobenzene         | 1                       | U |
| 95-50-1    | 1,2-Dichlorobenzene         | 1                       | U |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | 1                       | U |
| 120-82-1   | 1,2,4-Trichlorobenzene      | 1                       | U |

1LCE  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VHBLK01

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004

Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: EDCF6

Lab Sample ID: 6033.001      Date Received: 04/27/00

Lab File ID: G0944      Date Analyzed: 05/02/00

Purge Volume: 20 (mL)      Dilution Factor: 1.0

GC Column: DB-624      ID: 0.53 (mm) Length: 60 (m)

Number TICs found: 0

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC.<br>(ug/L) | Q |
|------------|---------------|----|----------------------|---|
| 1.         |               |    |                      |   |
| 2.         |               |    |                      |   |
| 3.         |               |    |                      |   |
| 4.         |               |    |                      |   |
| 5.         |               |    |                      |   |
| 6.         |               |    |                      |   |
| 7.         |               |    |                      |   |
| 8.         |               |    |                      |   |
| 9.         |               |    |                      |   |
| 10.        |               |    |                      |   |
| 11.        |               |    |                      |   |
| 12.        |               |    |                      |   |
| 13.        |               |    |                      |   |
| 14.        |               |    |                      |   |
| 15.        |               |    |                      |   |
| 16.        |               |    |                      |   |
| 17.        |               |    |                      |   |
| 18.        |               |    |                      |   |
| 19.        |               |    |                      |   |
| 20.        |               |    |                      |   |
| 21.        |               |    |                      |   |
| 22.        |               |    |                      |   |
| 23.        |               |    |                      |   |
| 24.        |               |    |                      |   |
| 25.        |               |    |                      |   |
| 26.        |               |    |                      |   |
| 27.        |               |    |                      |   |
| 28.        |               |    |                      |   |
| 29.        |               |    |                      |   |
| 30.        |               |    |                      |   |

1LCA  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDCF6

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: EDCF6

Lab Sample ID: 6033.009

Date Received: 04/27/00

Lab File ID: G0910

Date Analyzed: 04/28/00

Purge Volume: 20 (mL)

Dilution Factor: 1.0

GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

| CAS NO.    | COMPOUND                    | CONCENTRATION<br>(ug/L) | Q |
|------------|-----------------------------|-------------------------|---|
| 74-87-3    | Chloromethane               | 1                       | U |
| 74-83-9    | Bromomethane                | 1                       | U |
| 75-01-4    | Vinyl chloride              | 1                       | U |
| 75-00-3    | Chloroethane                | 1                       | U |
| 75-09-2    | Methylene chloride          | 2                       | U |
| 67-64-1    | Acetone                     | 5                       | U |
| 75-15-0    | Carbon disulfide            | 1                       | U |
| 75-35-4    | 1,1-Dichloroethene          | 1                       | U |
| 75-34-3    | 1,1-Dichloroethane          | 1                       | U |
| 156-59-2   | cis-1,2-Dichloroethene      | 1                       | U |
| 156-60-5   | trans-1,2-Dichloroethene    | 1                       | U |
| 67-66-3    | Chloroform                  | 1                       | U |
| 107-06-2   | 1,2-Dichloroethane          | 1                       | U |
| 78-93-3    | 2-Butanone                  | 5                       | U |
| 74-97-5    | Bromochloromethane          | 1                       | U |
| 71-55-6    | 1,1,1-Trichloroethane       | 1                       | U |
| 56-23-5    | Carbon tetrachloride        | 1                       | U |
| 75-27-4    | Bromodichloromethane        | 1                       | U |
| 78-87-5    | 1,2-Dichloropropane         | 2                       | U |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1                       | U |
| 79-01-6    | Trichloroethene             | 0.5                     | J |
| 124-48-1   | Dibromochloromethane        | 1                       | U |
| 79-00-5    | 1,1,2-Trichloroethane       | 1                       | U |
| 71-43-2    | Benzene                     | 1                       | U |
| 10061-02-6 | trans-1,3-Dichloropropene   | 1                       | U |
| 75-25-2    | Bromoform                   | 1                       | U |
| 108-10-1   | 4-Methyl-2-pentanone        | 5                       | U |
| 591-78-6   | 2-Hexanone                  | 5                       | U |
| 127-18-4   | Tetrachloroethene           | 1                       | U |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 1                       | U |
| 106-93-4   | 1,2-Dibromoethane           | 1                       | U |
| 108-88-3   | Toluene                     | 1                       | U |
| 108-90-7   | Chlorobenzene               | 1                       | U |
| 100-41-4   | Ethylbenzene                | 1                       | U |
| 100-42-5   | Styrene                     | 1                       | U |
| 1330-20-7  | Xylenes (total)             | 1                       | U |
| 541-73-1   | 1,3-Dichlorobenzene         | 1                       | U |
| 106-46-7   | 1,4-Dichlorobenzene         | 1                       | U |
| 95-50-1    | 1,2-Dichlorobenzene         | 1                       | U |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | 1                       | U |
| 120-82-1   | 1,2,4-Trichlorobenzene      | 1                       | U |

1LCE  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

|       |
|-------|
| EDCF6 |
|-------|

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004

Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: EDCF6

Lab Sample ID: 6033.009      Date Received: 04/27/00

Lab File ID: G0910      Date Analyzed: 04/28/00

Purge Volume: 20 (mL)      Dilution Factor: 1.0

GC Column: DB-624      ID: 0.53 (mm) Length: 60 (m)

Number TICs found: 0

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC.<br>(ug/L) | Q |
|------------|---------------|----|----------------------|---|
| 1.         |               |    |                      |   |
| 2.         |               |    |                      |   |
| 3.         |               |    |                      |   |
| 4.         |               |    |                      |   |
| 5.         |               |    |                      |   |
| 6.         |               |    |                      |   |
| 7.         |               |    |                      |   |
| 8.         |               |    |                      |   |
| 9.         |               |    |                      |   |
| 10.        |               |    |                      |   |
| 11.        |               |    |                      |   |
| 12.        |               |    |                      |   |
| 13.        |               |    |                      |   |
| 14.        |               |    |                      |   |
| 15.        |               |    |                      |   |
| 16.        |               |    |                      |   |
| 17.        |               |    |                      |   |
| 18.        |               |    |                      |   |
| 19.        |               |    |                      |   |
| 20.        |               |    |                      |   |
| 21.        |               |    |                      |   |
| 22.        |               |    |                      |   |
| 23.        |               |    |                      |   |
| 24.        |               |    |                      |   |
| 25.        |               |    |                      |   |
| 26.        |               |    |                      |   |
| 27.        |               |    |                      |   |
| 28.        |               |    |                      |   |
| 29.        |               |    |                      |   |
| 30.        |               |    |                      |   |

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

ILCA

EPA SAMPLE NO.

EDCF7

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: EDCF6

Lab Sample ID: 6033.010

Date Received: 04/27/00

Lab File ID: G0912

Date Analyzed: 04/28/00

Purge Volume: 20 (mL)

Dilution Factor: 1.0

GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

| CAS NO.    | COMPOUND                    | CONCENTRATION (ug/L) | Q |
|------------|-----------------------------|----------------------|---|
| 74-87-3    | Chloromethane               | 1                    | U |
| 74-83-9    | Bromomethane                | 1                    | U |
| 75-01-4    | Vinyl chloride              | 1                    | U |
| 75-00-3    | Chloroethane                | 1                    | U |
| 75-09-2    | Methylene chloride          | 2                    | U |
| 67-64-1    | Acetone                     | 5                    | U |
| 75-15-0    | Carbon disulfide            | 1                    | U |
| 75-35-4    | 1,1-Dichloroethane          | 1                    | U |
| 75-34-3    | 1,1-Dichloroethane          | 1                    | U |
| 156-59-2   | cis-1,2-Dichloroethene      | 1                    | U |
| 156-60-5   | trans-1,2-Dichloroethene    | 1                    | U |
| 67-66-3    | Chloroform                  | 1                    | U |
| 107-06-2   | 1,2-Dichloroethane          | 1                    | U |
| 78-93-3    | 2-Butanone                  | 5                    | U |
| 74-97-5    | Bromochloromethane          | 1                    | U |
| 71-55-6    | 1,1,1-Trichloroethane       | 1                    | U |
| 56-23-5    | Carbon tetrachloride        | 1                    | U |
| 75-27-4    | Bromodichloromethane        | 1                    | U |
| 78-87-5    | 1,2-Dichloropropane         | 1                    | U |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1                    | U |
| 79-01-6    | Trichloroethene             | 1                    | U |
| 124-48-1   | Dibromochloromethane        | 1                    | U |
| 79-00-5    | 1,1,2-Trichloroethane       | 1                    | U |
| 71-43-2    | Benzene                     | 1                    | U |
| 10061-02-6 | trans-1,3-Dichloropropene   | 1                    | U |
| 75-25-2    | Bromoform                   | 1                    | U |
| 108-10-1   | 4-Methyl-2-pentanone        | 5                    | U |
| 591-78-6   | 2-Hexanone                  | 5                    | U |
| 127-18-4   | Tetrachloroethene           | 1                    | U |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 1                    | U |
| 106-93-4   | 1,2-Dibromoethane           | 1                    | U |
| 108-88-3   | Toluene                     | 1                    | U |
| 108-90-7   | Chlorobenzene               | 1                    | U |
| 100-41-4   | Ethylbenzene                | 1                    | U |
| 100-42-5   | Styrene                     | 1                    | U |
| 1330-20-7  | Xylenes (total)             | 1                    | U |
| 541-73-1   | 1,3-Dichlorobenzene         | 1                    | U |
| 106-46-7   | 1,4-Dichlorobenzene         | 1                    | U |
| 95-50-1    | 1,2-Dichlorobenzene         | 1                    | U |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | 1                    | U |
| 120-82-1   | 1,2,4-Trichlorobenzene      | 1                    | U |

LLCE  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EDCF7

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004

Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: EDCF6

Lab Sample ID: 6033.010      Date Received: 04/27/00

Lab File ID: G0912      Date Analyzed: 04/28/00

Purge Volume: 20 (mL)      Dilution Factor: 1.0

GC Column: DB-624      ID: 0.53 (mm) Length: 60 (m)

Number TICs found: 0

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC.<br>(ug/L) | Q |
|------------|---------------|----|----------------------|---|
| 1.         |               |    |                      |   |
| 2.         |               |    |                      |   |
| 3.         |               |    |                      |   |
| 4.         |               |    |                      |   |
| 5.         |               |    |                      |   |
| 6.         |               |    |                      |   |
| 7.         |               |    |                      |   |
| 8.         |               |    |                      |   |
| 9.         |               |    |                      |   |
| 10.        |               |    |                      |   |
| 11.        |               |    |                      |   |
| 12.        |               |    |                      |   |
| 13.        |               |    |                      |   |
| 14.        |               |    |                      |   |
| 15.        |               |    |                      |   |
| 16.        |               |    |                      |   |
| 17.        |               |    |                      |   |
| 18.        |               |    |                      |   |
| 19.        |               |    |                      |   |
| 20.        |               |    |                      |   |
| 21.        |               |    |                      |   |
| 22.        |               |    |                      |   |
| 23.        |               |    |                      |   |
| 24.        |               |    |                      |   |
| 25.        |               |    |                      |   |
| 26.        |               |    |                      |   |
| 27.        |               |    |                      |   |
| 28.        |               |    |                      |   |
| 29.        |               |    |                      |   |
| 30.        |               |    |                      |   |

1LCE  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EDCF8

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004

Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: EDCF6

Lab Sample ID: 6033.011      Date Received: 04/27/00

Lab File ID: G0914      Date Analyzed: 04/28/00

Purge Volume: 20 (mL)      Dilution Factor: 1.0

GC Column: DB-624      ID: 0.53 (mm) Length: 60 (m)

Number TICs found: 1

| CAS NUMBER     | COMPOUND NAME | RT    | EST. CONC.<br>(ug/L) | Q     |
|----------------|---------------|-------|----------------------|-------|
| 1. 000060-29-7 | Ethyl ether   | 6.91  | 4                    | JN    |
| 2. _____       | _____         | _____ | _____                | _____ |
| 3. _____       | _____         | _____ | _____                | _____ |
| 4. _____       | _____         | _____ | _____                | _____ |
| 5. _____       | _____         | _____ | _____                | _____ |
| 6. _____       | _____         | _____ | _____                | _____ |
| 7. _____       | _____         | _____ | _____                | _____ |
| 8. _____       | _____         | _____ | _____                | _____ |
| 9. _____       | _____         | _____ | _____                | _____ |
| 10. _____      | _____         | _____ | _____                | _____ |
| 11. _____      | _____         | _____ | _____                | _____ |
| 12. _____      | _____         | _____ | _____                | _____ |
| 13. _____      | _____         | _____ | _____                | _____ |
| 14. _____      | _____         | _____ | _____                | _____ |
| 15. _____      | _____         | _____ | _____                | _____ |
| 16. _____      | _____         | _____ | _____                | _____ |
| 17. _____      | _____         | _____ | _____                | _____ |
| 18. _____      | _____         | _____ | _____                | _____ |
| 19. _____      | _____         | _____ | _____                | _____ |
| 20. _____      | _____         | _____ | _____                | _____ |
| 21. _____      | _____         | _____ | _____                | _____ |
| 22. _____      | _____         | _____ | _____                | _____ |
| 23. _____      | _____         | _____ | _____                | _____ |
| 24. _____      | _____         | _____ | _____                | _____ |
| 25. _____      | _____         | _____ | _____                | _____ |
| 26. _____      | _____         | _____ | _____                | _____ |
| 27. _____      | _____         | _____ | _____                | _____ |
| 28. _____      | _____         | _____ | _____                | _____ |
| 29. _____      | _____         | _____ | _____                | _____ |
| 30. _____      | _____         | _____ | _____                | _____ |

1LCA  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDCF8

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: EDCF6

Lab Sample ID: 6033.011

Date Received: 04/27/00

Lab File ID: G0914

Date Analyzed: 04/28/00

Purge Volume: 20 (mL)

Dilution Factor: 1.0

GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

| CAS NO.    | COMPOUND                    | CONCENTRATION (ug/L) | Q |
|------------|-----------------------------|----------------------|---|
| 74-87-3    | Chloromethane               | 1                    | U |
| 74-83-9    | Bromomethane                | 1                    | U |
| 75-01-4    | Vinyl chloride              | 1                    | U |
| 75-00-3    | Chloroethane                | 1                    | U |
| 75-09-2    | Methylene chloride          | 2                    | U |
| 67-64-1    | Acetone                     | 5                    | U |
| 75-15-0    | Carbon disulfide            | 0.6                  | J |
| 75-35-4    | 1,1-Dichloroethene          | 1                    | U |
| 75-34-3    | 1,1-Dichloroethane          | 5                    | U |
| 156-59-2   | cis-1,2-Dichloroethene      | 1                    | U |
| 156-60-5   | trans-1,2-Dichloroethene    | 1                    | U |
| 67-66-3    | Chloroform                  | 1                    | U |
| 107-06-2   | 1,2-Dichloroethane          | 1                    | U |
| 78-93-3    | 2-Butanone                  | 5                    | U |
| 74-97-5    | Bromochloromethane          | 1                    | U |
| 71-55-6    | 1,1,1-Trichloroethane       | 1                    | U |
| 56-23-5    | Carbon tetrachloride        | 1                    | U |
| 75-27-4    | Bromodichloromethane        | 1                    | U |
| 78-87-5    | 1,2-Dichloropropane         | 1                    | U |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1                    | U |
| 79-01-6    | Trichloroethene             | 1                    | U |
| 124-48-1   | Dibromochloromethane        | 1                    | U |
| 79-00-5    | 1,1,2-Trichloroethane       | 1                    | U |
| 71-43-2    | Benzene                     | 1                    | U |
| 10061-02-6 | trans-1,3-Dichloropropene   | 1                    | U |
| 75-25-2    | Bromoform                   | 1                    | U |
| 108-10-1   | 4-Methyl-2-pentanone        | 5                    | U |
| 591-78-6   | 2-Hexanone                  | 5                    | U |
| 127-18-4   | Tetrachloroethene           | 1                    | U |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 1                    | U |
| 106-93-4   | 1,2-Dibromoethane           | 1                    | U |
| 108-88-3   | Toluene                     | 1                    | U |
| 108-90-7   | Chlorobenzene               | 1                    | U |
| 100-41-4   | Ethylbenzene                | 1                    | U |
| 100-42-5   | Styrene                     | 1                    | U |
| 1330-20-7  | Xylenes (total)             | 1                    | U |
| 541-73-1   | 1,3-Dichlorobenzene         | 1                    | U |
| 106-46-7   | 1,4-Dichlorobenzene         | 1                    | U |
| 95-50-1    | 1,2-Dichlorobenzene         | 1                    | U |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | 1                    | U |
| 120-82-1   | 1,2,4-Trichlorobenzene      | 1                    | U |

1LCA  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDCF9

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: EDCF6

Lab Sample ID: 6033.013

Date Received: 04/27/00

Lab File ID: G0916

Date Analyzed: 04/28/00

Purge Volume: 20 (mL)

Dilution Factor: 1.0

GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

| CAS NO.    | COMPOUND                    | CONCENTRATION<br>(ug/L) | Q |
|------------|-----------------------------|-------------------------|---|
| 74-87-3    | Chloromethane               | 1                       | U |
| 74-83-9    | Bromomethane                | 1                       | U |
| 75-01-4    | Vinyl chloride              | 1                       | U |
| 75-00-3    | Chloroethane                | 2                       |   |
| 75-09-2    | Methylene chloride          | 2                       | U |
| 67-64-1    | Acetone                     | 5                       | U |
| 75-15-0    | Carbon disulfide            | 1                       | U |
| 75-35-4    | 1,1-Dichloroethene          | 1                       | U |
| 75-34-3    | 1,1-Dichloroethane          | 0.8                     | J |
| 156-59-2   | cis-1,2-Dichloroethene      | 1                       | U |
| 156-60-5   | trans-1,2-Dichloroethene    | 1                       | U |
| 67-66-3    | Chloroform                  | 1                       | U |
| 107-06-2   | 1,2-Dichloroethane          | 1                       | U |
| 78-93-3    | 2-Butanone                  | 5                       | U |
| 74-97-5    | Bromochloromethane          | 1                       | U |
| 71-55-6    | 1,1,1-Trichloroethane       | 1                       | U |
| 56-23-5    | Carbon tetrachloride        | 1                       | U |
| 75-27-4    | Bromodichloromethane        | 1                       | U |
| 78-87-5    | 1,2-Dichloropropane         | 1                       | U |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1                       | U |
| 79-01-6    | Trichloroethene             | 1                       | U |
| 124-48-1   | Dibromochloromethane        | 1                       | U |
| 79-00-5    | 1,1,2-Trichloroethane       | 1                       | U |
| 71-43-2    | Benzene                     | 1                       | U |
| 10061-02-6 | trans-1,3-Dichloropropene   | 1                       | U |
| 75-25-2    | Bromoform                   | 1                       | U |
| 108-10-1   | 4-Methyl-2-pentanone        | 5                       | U |
| 591-78-6   | 2-Hexanone                  | 5                       | U |
| 127-18-4   | Tetrachloroethene           | 1                       | U |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 1                       | U |
| 106-93-4   | 1,2-Dibromoethane           | 1                       | U |
| 108-88-3   | Toluene                     | 1                       | U |
| 108-90-7   | Chlorobenzene               | 1                       | U |
| 100-41-4   | Ethylbenzene                | 1                       | U |
| 100-42-5   | Styrene                     | 1                       | U |
| 1330-20-7  | Xylenes (total)             | 1                       | U |
| 541-73-1   | 1,3-Dichlorobenzene         | 1                       | U |
| 106-46-7   | 1,4-Dichlorobenzene         | 1                       | U |
| 95-50-1    | 1,2-Dichlorobenzene         | 1                       | U |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | 1                       | U |
| 120-82-1   | 1,2,4-Trichlorobenzene      | 1                       | U |

1LCE  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EDCF9

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004

Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: EDCF6

Lab Sample ID: 6033.013      Date Received: 04/27/00

Lab File ID: G0916      Date Analyzed: 04/28/00

Purge Volume: 20 (mL)      Dilution Factor: 1.0

GC Column: DB-624      ID: 0.53 (mm) Length: 60 (m)

Number TICs found: 1

| CAS NUMBER     | COMPOUND NAME | RT    | EST. CONC.<br>(ug/L) | Q     |
|----------------|---------------|-------|----------------------|-------|
| 1. 000060-29-7 | Ethyl ether   | 6.91  | 4                    | JN    |
| 2. _____       | _____         | _____ | _____                | _____ |
| 3. _____       | _____         | _____ | _____                | _____ |
| 4. _____       | _____         | _____ | _____                | _____ |
| 5. _____       | _____         | _____ | _____                | _____ |
| 6. _____       | _____         | _____ | _____                | _____ |
| 7. _____       | _____         | _____ | _____                | _____ |
| 8. _____       | _____         | _____ | _____                | _____ |
| 9. _____       | _____         | _____ | _____                | _____ |
| 10. _____      | _____         | _____ | _____                | _____ |
| 11. _____      | _____         | _____ | _____                | _____ |
| 12. _____      | _____         | _____ | _____                | _____ |
| 13. _____      | _____         | _____ | _____                | _____ |
| 14. _____      | _____         | _____ | _____                | _____ |
| 15. _____      | _____         | _____ | _____                | _____ |
| 16. _____      | _____         | _____ | _____                | _____ |
| 17. _____      | _____         | _____ | _____                | _____ |
| 18. _____      | _____         | _____ | _____                | _____ |
| 19. _____      | _____         | _____ | _____                | _____ |
| 20. _____      | _____         | _____ | _____                | _____ |
| 21. _____      | _____         | _____ | _____                | _____ |
| 22. _____      | _____         | _____ | _____                | _____ |
| 23. _____      | _____         | _____ | _____                | _____ |
| 24. _____      | _____         | _____ | _____                | _____ |
| 25. _____      | _____         | _____ | _____                | _____ |
| 26. _____      | _____         | _____ | _____                | _____ |
| 27. _____      | _____         | _____ | _____                | _____ |
| 28. _____      | _____         | _____ | _____                | _____ |
| 29. _____      | _____         | _____ | _____                | _____ |
| 30. _____      | _____         | _____ | _____                | _____ |

1LCA  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDCG1

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.:

SDG No.: EDCF6

Lab Sample ID: 6033.012

Date Received: 04/27/00

Lab File ID: G0896

Date Analyzed: 04/27/00

Purge Volume: 20 (mL)

Dilution Factor: 1.0

GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

| CAS NO.    | COMPOUND                    | CONCENTRATION (ug/L) | Q |
|------------|-----------------------------|----------------------|---|
| 74-87-3    | Chloromethane               | 1                    | U |
| 74-83-9    | Bromomethane                | 1                    | U |
| 75-01-4    | Vinyl chloride              | 1                    | U |
| 75-00-3    | Chloroethane                | 1                    | U |
| 75-09-2    | Methylene chloride          | 3                    |   |
| 67-64-1    | Acetone                     | 4                    | J |
| 75-15-0    | Carbon disulfide            | 1                    | U |
| 75-35-4    | 1,1-Dichloroethene          | 1                    | U |
| 75-34-3    | 1,1-Dichloroethane          | 1                    | U |
| 156-59-2   | cis-1,2-Dichloroethene      | 1                    | U |
| 156-60-5   | trans-1,2-Dichloroethene    | 1                    | U |
| 67-66-3    | Chloroform                  | 1                    | U |
| 107-06-2   | 1,2-Dichloroethane          | 1                    | U |
| 78-93-3    | 2-Butanone                  | 5                    | U |
| 74-97-5    | Bromochloromethane          | 1                    | U |
| 71-55-6    | 1,1,1-Trichloroethane       | 1                    | U |
| 56-23-5    | Carbon tetrachloride        | 1                    | U |
| 75-27-4    | Bromodichloromethane        | 1                    | U |
| 78-87-5    | 1,2-Dichloropropane         | 1                    | U |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1                    | U |
| 79-01-6    | Trichloroethene             | 1                    | U |
| 124-48-1   | Dibromochloromethane        | 1                    | U |
| 79-00-5    | 1,1,2-Trichloroethane       | 1                    | U |
| 71-43-2    | Benzene                     | 1                    | U |
| 10061-02-6 | trans-1,3-Dichloropropene   | 1                    | U |
| 75-25-2    | Bromoform                   | 1                    | U |
| 108-10-1   | 4-Methyl-2-pentanone        | 5                    | U |
| 591-78-6   | 2-Hexanone                  | 5                    | U |
| 127-18-4   | Tetrachloroethene           | 1                    | U |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 1                    | U |
| 106-93-4   | 1,2-Dibromoethane           | 1                    | U |
| 108-88-3   | Toluene                     | 1                    | U |
| 108-90-7   | Chlorobenzene               | 1                    | U |
| 100-41-4   | Ethylbenzene                | 1                    | U |
| 100-42-5   | Styrene                     | 1                    | U |
| 1330-20-7  | Xylenes (total)             | 1                    | U |
| 541-73-1   | 1,3-Dichlorobenzene         | 1                    | U |
| 106-46-7   | 1,4-Dichlorobenzene         | 1                    | U |
| 95-50-1    | 1,2-Dichlorobenzene         | 1                    | U |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | 1                    | U |
| 120-82-1   | 1,2,4-Trichlorobenzene      | 1                    | U |

1LCE  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

|       |
|-------|
| EDCG1 |
|-------|

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004

Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: EDCF6

Lab Sample ID: 6033.012      Date Received: 04/27/00

Lab File ID: G0896      Date Analyzed: 04/27/00

Purge Volume: 20 (mL)      Dilution Factor: 1.0

GC Column: DB-624      ID: 0.53 (mm) Length: 60 (m)

Number TICs found: 0

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC.<br>(ug/L) | Q |
|------------|---------------|----|----------------------|---|
| 1.         |               |    |                      |   |
| 2.         |               |    |                      |   |
| 3.         |               |    |                      |   |
| 4.         |               |    |                      |   |
| 5.         |               |    |                      |   |
| 6.         |               |    |                      |   |
| 7.         |               |    |                      |   |
| 8.         |               |    |                      |   |
| 9.         |               |    |                      |   |
| 10.        |               |    |                      |   |
| 11.        |               |    |                      |   |
| 12.        |               |    |                      |   |
| 13.        |               |    |                      |   |
| 14.        |               |    |                      |   |
| 15.        |               |    |                      |   |
| 16.        |               |    |                      |   |
| 17.        |               |    |                      |   |
| 18.        |               |    |                      |   |
| 19.        |               |    |                      |   |
| 20.        |               |    |                      |   |
| 21.        |               |    |                      |   |
| 22.        |               |    |                      |   |
| 23.        |               |    |                      |   |
| 24.        |               |    |                      |   |
| 25.        |               |    |                      |   |
| 26.        |               |    |                      |   |
| 27.        |               |    |                      |   |
| 28.        |               |    |                      |   |
| 29.        |               |    |                      |   |
| 30.        |               |    |                      |   |

1LCA  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDCG3

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: EDCF6

Lab Sample ID: 6033.019

Date Received: 04/27/00

Lab File ID: G0900

Date Analyzed: 04/28/00

Purge Volume: 20 (mL)

Dilution Factor: 1.0

GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

| CAS NO.    | COMPOUND                    | CONCENTRATION<br>(ug/L) | Q |
|------------|-----------------------------|-------------------------|---|
| 74-87-3    | Chloromethane               | 1                       | U |
| 74-83-9    | Bromomethane                | 1                       | U |
| 75-01-4    | Vinyl chloride              | 1                       | U |
| 75-00-3    | Chloroethane                | 1                       | U |
| 75-09-2    | Methylene chloride          | 2                       | U |
| 67-64-1    | Acetone                     | 5                       | U |
| 75-15-0    | Carbon disulfide            | 1                       | U |
| 75-35-4    | 1,1-Dichloroethene          | 1                       | U |
| 75-34-3    | 1,1-Dichloroethane          | 1                       | U |
| 156-59-2   | cis-1,2-Dichloroethene      | 1                       | U |
| 156-60-5   | trans-1,2-Dichloroethene    | 1                       | U |
| 67-66-3    | Chloroform                  | 1                       | U |
| 107-06-2   | 1,2-Dichloroethane          | 1                       | U |
| 78-93-3    | 2-Butanone                  | 5                       | U |
| 74-97-5    | Bromochloromethane          | 1                       | U |
| 71-55-6    | 1,1,1-Trichloroethane       | 1                       | U |
| 56-23-5    | Carbon tetrachloride        | 1                       | U |
| 75-27-4    | Bromodichloromethane        | 1                       | U |
| 78-87-5    | 1,2-Dichloropropane         | 1                       | U |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1                       | U |
| 79-01-6    | Trichloroethene             | 1                       | U |
| 124-48-1   | Dibromochloromethane        | 1                       | U |
| 79-00-5    | 1,1,2-Trichloroethane       | 1                       | U |
| 71-43-2    | Benzene                     | 1                       | U |
| 10061-02-6 | trans-1,3-Dichloropropene   | 1                       | U |
| 75-25-2    | Bromoform                   | 1                       | U |
| 108-10-1   | 4-Methyl-2-pentanone        | 5                       | U |
| 591-78-6   | 2-Hexanone                  | 5                       | U |
| 127-18-4   | Tetrachloroethene           | 1                       | U |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 1                       | U |
| 106-93-4   | 1,2-Dibromoethane           | 1                       | U |
| 108-88-3   | Toluene                     | 1                       | U |
| 108-90-7   | Chlorobenzene               | 1                       | U |
| 100-41-4   | Ethylbenzene                | 1                       | U |
| 100-42-5   | Styrene                     | 1                       | U |
| 1330-20-7  | Xylenes (total)             | 1                       | U |
| 541-73-1   | 1,3-Dichlorobenzene         | 1                       | U |
| 106-46-7   | 1,4-Dichlorobenzene         | 1                       | U |
| 95-50-1    | 1,2-Dichlorobenzene         | 1                       | U |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | 1                       | U |
| 120-82-1   | 1,2,4-Trichlorobenzene      | 1                       | U |

1LCE  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EDCG3

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004

Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: EDCF6

Lab Sample ID: 6033.019      Date Received: 04/27/00

Lab File ID: G0900      Date Analyzed: 04/28/00

Purge Volume: 20 (mL)      Dilution Factor: 1.0

GC Column: DB-624      ID: 0.53 (mm) Length: 60 (m)

Number TICs found:      0

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC.<br>(ug/L) | Q |
|------------|---------------|----|----------------------|---|
| 1.         |               |    |                      |   |
| 2.         |               |    |                      |   |
| 3.         |               |    |                      |   |
| 4.         |               |    |                      |   |
| 5.         |               |    |                      |   |
| 6.         |               |    |                      |   |
| 7.         |               |    |                      |   |
| 8.         |               |    |                      |   |
| 9.         |               |    |                      |   |
| 10.        |               |    |                      |   |
| 11.        |               |    |                      |   |
| 12.        |               |    |                      |   |
| 13.        |               |    |                      |   |
| 14.        |               |    |                      |   |
| 15.        |               |    |                      |   |
| 16.        |               |    |                      |   |
| 17.        |               |    |                      |   |
| 18.        |               |    |                      |   |
| 19.        |               |    |                      |   |
| 20.        |               |    |                      |   |
| 21.        |               |    |                      |   |
| 22.        |               |    |                      |   |
| 23.        |               |    |                      |   |
| 24.        |               |    |                      |   |
| 25.        |               |    |                      |   |
| 26.        |               |    |                      |   |
| 27.        |               |    |                      |   |
| 28.        |               |    |                      |   |
| 29.        |               |    |                      |   |
| 30.        |               |    |                      |   |

11CA  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDPM3

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: EDCF6

Lab Sample ID: 6033.002

Date Received: 04/27/00

Lab File ID: G0893

Date Analyzed: 04/27/00

Purge Volume: 20 (mL)

Dilution Factor: 1.0

GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

| CAS NO.    | COMPOUND                    | CONCENTRATION (ug/L) | Q |
|------------|-----------------------------|----------------------|---|
| 74-87-3    | Chloromethane               | 1                    | U |
| 74-83-9    | Bromomethane                | 1                    | U |
| 75-01-4    | Vinyl chloride              | 1                    | U |
| 75-00-3    | Chloroethane                | 2                    | U |
| 75-09-2    | Methylene chloride          | 2                    | U |
| 67-64-1    | Acetone                     | 5                    | U |
| 75-15-0    | Carbon disulfide            | 1                    | U |
| 75-35-4    | 1,1-Dichloroethene          | 1                    | U |
| 75-34-3    | 1,1-Dichloroethane          | 0.8                  | J |
| 156-59-2   | cis-1,2-Dichloroethene      | 1                    | U |
| 156-60-5   | trans-1,2-Dichloroethene    | 1                    | U |
| 67-66-3    | Chloroform                  | 1                    | U |
| 107-06-2   | 1,2-Dichloroethane          | 1                    | U |
| 78-93-3    | 2-Butanone                  | 5                    | U |
| 74-97-5    | Bromochloromethane          | 1                    | U |
| 71-55-6    | 1,1,1-Trichloroethane       | 1                    | U |
| 56-23-5    | Carbon tetrachloride        | 1                    | U |
| 75-27-4    | Bromodichloromethane        | 1                    | U |
| 78-87-5    | 1,2-Dichloropropane         | 0.5                  | J |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1                    | U |
| 79-01-6    | Trichloroethene             | 1                    | U |
| 124-48-1   | Dibromochloromethane        | 1                    | U |
| 79-00-5    | 1,1,2-Trichloroethane       | 1                    | U |
| 71-43-2    | Benzene                     | 1                    | U |
| 10061-02-6 | trans-1,3-Dichloropropene   | 1                    | U |
| 75-25-2    | Bromoform                   | 1                    | U |
| 108-10-1   | 4-Methyl-2-pentanone        | 5                    | U |
| 591-78-6   | 2-Hexanone                  | 5                    | U |
| 127-18-4   | Tetrachloroethene           | 1                    | U |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 1                    | U |
| 106-93-4   | 1,2-Dibromoethane           | 1                    | U |
| 108-88-3   | Toluene                     | 1                    | U |
| 108-90-7   | Chlorobenzene               | 1                    | U |
| 100-41-4   | Ethylbenzene                | 1                    | U |
| 100-42-5   | Styrene                     | 1                    | U |
| 1330-20-7  | Xylenes (total)             | 1                    | U |
| 541-73-1   | 1,3-Dichlorobenzene         | 1                    | U |
| 106-46-7   | 1,4-Dichlorobenzene         | 1                    | U |
| 95-50-1    | 1,2-Dichlorobenzene         | 1                    | U |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | 1                    | U |
| 120-82-1   | 1,2,4-Trichlorobenzene      | 1                    | U |

1LCE  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EDPM3

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004

Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: EDCF6

Lab Sample ID: 6033.002      Date Received: 04/27/00

Lab File ID: G0893      Date Analyzed: 04/27/00

Purge Volume: 20 (mL)      Dilution Factor: 1.0

GC Column: DB-624      ID: 0.53 (mm) Length: 60 (m)

Number TICs found: 2

| CAS NUMBER     | COMPOUND NAME            | RT   | EST. CONC.<br>(ug/L) | Q  |
|----------------|--------------------------|------|----------------------|----|
| 1. 000075-43-4 | Methane, dichlorofluoro- | 6.13 | 2                    | JN |
| 2. 000060-29-7 | Ethyl ether              | 6.92 | 5                    | JN |
| 3.             |                          |      |                      |    |
| 4.             |                          |      |                      |    |
| 5.             |                          |      |                      |    |
| 6.             |                          |      |                      |    |
| 7.             |                          |      |                      |    |
| 8.             |                          |      |                      |    |
| 9.             |                          |      |                      |    |
| 10.            |                          |      |                      |    |
| 11.            |                          |      |                      |    |
| 12.            |                          |      |                      |    |
| 13.            |                          |      |                      |    |
| 14.            |                          |      |                      |    |
| 15.            |                          |      |                      |    |
| 16.            |                          |      |                      |    |
| 17.            |                          |      |                      |    |
| 18.            |                          |      |                      |    |
| 19.            |                          |      |                      |    |
| 20.            |                          |      |                      |    |
| 21.            |                          |      |                      |    |
| 22.            |                          |      |                      |    |
| 23.            |                          |      |                      |    |
| 24.            |                          |      |                      |    |
| 25.            |                          |      |                      |    |
| 26.            |                          |      |                      |    |
| 27.            |                          |      |                      |    |
| 28.            |                          |      |                      |    |
| 29.            |                          |      |                      |    |
| 30.            |                          |      |                      |    |

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

ILCA

EPA SAMPLE NO.

EDPM6

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: EDCF6

Lab Sample ID: 6033.003

Date Received: 04/27/00

Lab File ID: G0895

Date Analyzed: 04/27/00

Purge Volume: 20 (mL)

Dilution Factor: 1.0

GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

| CAS NO.    | COMPOUND                    | CONCENTRATION<br>(ug/L) | Q |
|------------|-----------------------------|-------------------------|---|
| 74-87-3    | Chloromethane               | 1                       | U |
| 74-83-9    | Bromomethane                | 1                       | U |
| 75-01-4    | Vinyl chloride              | 1                       | U |
| 75-00-3    | Chloroethane                | 1                       | U |
| 75-09-2    | Methylene chloride          | 2                       | U |
| 67-64-1    | Acetone                     | 5                       | U |
| 75-15-0    | Carbon disulfide            | 0.5                     | J |
| 75-35-4    | 1,1-Dichloroethene          | 1                       | U |
| 75-34-3    | 1,1-Dichloroethane          | 1                       | U |
| 156-59-2   | cis-1,2-Dichloroethene      | 1                       | U |
| 156-60-5   | trans-1,2-Dichloroethene    | 1                       | U |
| 67-66-3    | Chloroform                  | 1                       | U |
| 107-06-2   | 1,2-Dichloroethane          | 1                       | U |
| 78-93-3    | 2-Butanone                  | 5                       | U |
| 74-97-5    | Bromochloromethane          | 1                       | U |
| 71-55-6    | 1,1,1-Trichloroethane       | 1                       | U |
| 56-23-5    | Carbon tetrachloride        | 1                       | U |
| 75-27-4    | Bromodichloromethane        | 1                       | U |
| 78-87-5    | 1,2-Dichloropropane         | 1                       | U |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1                       | U |
| 79-01-6    | Trichloroethene             | 1                       | U |
| 124-48-1   | Dibromochloromethane        | 1                       | U |
| 79-00-5    | 1,1,2-Trichloroethane       | 1                       | U |
| 71-43-2    | Benzene                     | 2                       |   |
| 10061-02-6 | trans-1,3-Dichloropropene   | 1                       | U |
| 75-25-2    | Bromoform                   | 1                       | U |
| 108-10-1   | 4-Methyl-2-pentanone        | 5                       | U |
| 591-78-6   | 2-Hexanone                  | 5                       | U |
| 127-18-4   | Tetrachloroethene           | 1                       | U |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 1                       | U |
| 106-93-4   | 1,2-Dibromoethane           | 1                       | U |
| 108-88-3   | Toluene                     | 1                       | U |
| 108-90-7   | Chlorobenzene               | 1                       | U |
| 100-41-4   | Ethylbenzene                | 1                       | U |
| 100-42-5   | Styrene                     | 1                       | U |
| 1330-20-7  | Xylenes (total)             | 1                       | U |
| 541-73-1   | 1,3-Dichlorobenzene         | 1                       | U |
| 106-46-7   | 1,4-Dichlorobenzene         | 1                       | U |
| 95-50-1    | 1,2-Dichlorobenzene         | 1                       | U |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | 1                       | U |
| 120-82-1   | 1,2,4-Trichlorobenzene      | 1                       | U |

1LCE  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

|       |
|-------|
| EDPM6 |
|-------|

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004

Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: EDCF6

Lab Sample ID: 6033.003      Date Received: 04/27/00

Lab File ID: G0895      Date Analyzed: 04/27/00

Purge Volume: 20 (mL)      Dilution Factor: 1.0

GC Column: DB-624      ID: 0.53 (mm) Length: 60 (m)

Number TICs found: 1

| CAS NUMBER     | COMPOUND NAME | RT   | EST. CONC.<br>(ug/L) | Q  |
|----------------|---------------|------|----------------------|----|
| 1. 000060-29-7 | Ethyl ether   | 6.91 | 6                    | JN |
| 2.             |               |      |                      |    |
| 3.             |               |      |                      |    |
| 4.             |               |      |                      |    |
| 5.             |               |      |                      |    |
| 6.             |               |      |                      |    |
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| 16.            |               |      |                      |    |
| 17.            |               |      |                      |    |
| 18.            |               |      |                      |    |
| 19.            |               |      |                      |    |
| 20.            |               |      |                      |    |
| 21.            |               |      |                      |    |
| 22.            |               |      |                      |    |
| 23.            |               |      |                      |    |
| 24.            |               |      |                      |    |
| 25.            |               |      |                      |    |
| 26.            |               |      |                      |    |
| 27.            |               |      |                      |    |
| 28.            |               |      |                      |    |
| 29.            |               |      |                      |    |
| 30.            |               |      |                      |    |

LLCA  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDPM7

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: EDCF6

Lab Sample ID: 6033.004

Date Received: 04/27/00

Lab File ID: G0897

Date Analyzed: 04/27/00

Purge Volume: 20 (mL)

Dilution Factor: 1.0

GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

| CAS NO.    | COMPOUND                    | CONCENTRATION (ug/L) | Q |
|------------|-----------------------------|----------------------|---|
| 74-87-3    | Chloromethane               | 1                    | U |
| 74-83-9    | Bromomethane                | 1                    | U |
| 75-01-4    | Vinyl chloride              | 1                    | U |
| 75-00-3    | Chloroethane                | 1                    | U |
| 75-09-2    | Methylene chloride          | 2                    | U |
| 67-64-1    | Acetone                     | 5                    | U |
| 75-15-0    | Carbon disulfide            | 0.6                  | J |
| 75-35-4    | 1,1-Dichloroethene          | 1                    | U |
| 75-34-3    | 1,1-Dichloroethane          | 1                    | U |
| 156-59-2   | cis-1,2-Dichloroethene      | 1                    | U |
| 156-60-5   | trans-1,2-Dichloroethene    | 1                    | U |
| 67-66-3    | Chloroform                  | 1                    | U |
| 107-06-2   | 1,2-Dichloroethane          | 1                    | U |
| 78-93-3    | 2-Butanone                  | 5                    | U |
| 74-97-5    | Bromochloromethane          | 1                    | U |
| 71-55-6    | 1,1,1-Trichloroethane       | 1                    | U |
| 56-23-5    | Carbon tetrachloride        | 1                    | U |
| 75-27-4    | Bromodichloromethane        | 1                    | U |
| 78-87-5    | 1,2-Dichloropropane         | 1                    | U |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1                    | U |
| 79-01-6    | Trichloroethene             | 1                    | U |
| 124-48-1   | Dibromochloromethane        | 1                    | U |
| 79-00-5    | 1,1,2-Trichloroethane       | 1                    | U |
| 71-43-2    | Benzene                     | 1                    | U |
| 10061-02-6 | trans-1,3-Dichloropropene   | 1                    | U |
| 75-25-2    | Bromoform                   | 1                    | U |
| 108-10-1   | 4-Methyl-2-pentanone        | 5                    | U |
| 591-78-6   | 2-Hexanone                  | 5                    | U |
| 127-18-4   | Tetrachloroethene           | 1                    | U |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 1                    | U |
| 106-93-4   | 1,2-Dibromoethane           | 1                    | U |
| 108-88-3   | Toluene                     | 1                    | U |
| 108-90-7   | Chlorobenzene               | 1                    | U |
| 100-41-4   | Ethylbenzene                | 1                    | U |
| 100-42-5   | Styrene                     | 1                    | U |
| 1330-20-7  | Xylenes (total)             | 1                    | U |
| 541-73-1   | 1,3-Dichlorobenzene         | 1                    | U |
| 106-46-7   | 1,4-Dichlorobenzene         | 1                    | U |
| 95-50-1    | 1,2-Dichlorobenzene         | 1                    | U |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | 1                    | U |
| 120-82-1   | 1,2,4-Trichlorobenzene      | 1                    | U |

0107

1LCE  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EDPM7

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004

Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: EDCF6

Lab Sample ID: 6033.004      Date Received: 04/27/00

Lab File ID: G0897      Date Analyzed: 04/27/00

Purge Volume: 20 (mL)      Dilution Factor: 1.0

GC Column: DB-624      ID: 0.53 (mm) Length: 60 (m)

Number TICs found: 1

| CAS NUMBER     | COMPOUND NAME | RT   | EST. CONC.<br>(ug/L) | Q  |
|----------------|---------------|------|----------------------|----|
| 1. 000060-29-7 | Ethyl ether   | 6.91 | 5                    | JN |
| 2.             |               |      |                      |    |
| 3.             |               |      |                      |    |
| 4.             |               |      |                      |    |
| 5.             |               |      |                      |    |
| 6.             |               |      |                      |    |
| 7.             |               |      |                      |    |
| 8.             |               |      |                      |    |
| 9.             |               |      |                      |    |
| 10.            |               |      |                      |    |
| 11.            |               |      |                      |    |
| 12.            |               |      |                      |    |
| 13.            |               |      |                      |    |
| 14.            |               |      |                      |    |
| 15.            |               |      |                      |    |
| 16.            |               |      |                      |    |
| 17.            |               |      |                      |    |
| 18.            |               |      |                      |    |
| 19.            |               |      |                      |    |
| 20.            |               |      |                      |    |
| 21.            |               |      |                      |    |
| 22.            |               |      |                      |    |
| 23.            |               |      |                      |    |
| 24.            |               |      |                      |    |
| 25.            |               |      |                      |    |
| 26.            |               |      |                      |    |
| 27.            |               |      |                      |    |
| 28.            |               |      |                      |    |
| 29.            |               |      |                      |    |
| 30.            |               |      |                      |    |

1LCA  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDPM8

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

Lab Code: PDP Case No.: 27986 SAS No.: \_\_\_\_\_ SDG No.: EDCF6

Lab Sample ID: 6033.005 Date Received: 04/27/00

Lab File ID: G0894 Date Analyzed: 04/27/00

Purge Volume: 20 (mL) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

| CAS NO.    | COMPOUND                    | CONCENTRATION<br>(ug/L) | Q |
|------------|-----------------------------|-------------------------|---|
| 74-87-3    | Chloromethane               | 1                       | U |
| 74-83-9    | Bromomethane                | 1                       | U |
| 75-01-4    | Vinyl chloride              | 1                       | U |
| 75-00-3    | Chloroethane                | 1                       | U |
| 75-09-2    | Methylene chloride          | 0.6                     | J |
| 67-64-1    | Acetone                     | 5                       | U |
| 75-15-0    | Carbon disulfide            | 1                       | U |
| 75-35-4    | 1,1-Dichloroethene          | 1                       | U |
| 75-34-3    | 1,1-Dichloroethane          | 1                       | U |
| 156-59-2   | cis-1,2-Dichloroethene      | 1                       | U |
| 156-60-5   | trans-1,2-Dichloroethene    | 1                       | U |
| 67-66-3    | Chloroform                  | 1                       | U |
| 107-06-2   | 1,2-Dichloroethane          | 1                       | U |
| 78-93-3    | 2-Butanone                  | 5                       | U |
| 74-97-5    | Bromochloromethane          | 1                       | U |
| 71-55-6    | 1,1,1-Trichloroethane       | 1                       | U |
| 56-23-5    | Carbon tetrachloride        | 1                       | U |
| 75-27-4    | Bromodichloromethane        | 1                       | U |
| 78-87-5    | 1,2-Dichloropropane         | 1                       | U |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1                       | U |
| 79-01-6    | Trichloroethene             | 1                       | U |
| 124-48-1   | Dibromochloromethane        | 1                       | U |
| 79-00-5    | 1,1,2-Trichloroethane       | 1                       | U |
| 71-43-2    | Benzene                     | 1                       | U |
| 10061-02-6 | trans-1,3-Dichloropropene   | 1                       | U |
| 75-25-2    | Bromoform                   | 1                       | U |
| 108-10-1   | 4-Methyl-2-pentanone        | 5                       | U |
| 591-78-6   | 2-Hexanone                  | 5                       | U |
| 127-18-4   | Tetrachloroethene           | 1                       | U |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 1                       | U |
| 106-93-4   | 1,2-Dibromoethane           | 1                       | U |
| 108-88-3   | Toluene                     | 1                       | U |
| 108-90-7   | Chlorobenzene               | 1                       | U |
| 100-41-4   | Ethylbenzene                | 1                       | U |
| 100-42-5   | Styrene                     | 1                       | U |
| 1330-20-7  | Xylenes (total)             | 1                       | U |
| 541-73-1   | 1,3-Dichlorobenzene         | 1                       | U |
| 106-46-7   | 1,4-Dichlorobenzene         | 1                       | U |
| 95-50-1    | 1,2-Dichlorobenzene         | 1                       | U |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | 1                       | U |
| 120-82-1   | 1,2,4-Trichlorobenzene      | 1                       | U |

1LCE  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EDPM8

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004

Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: EDCF6

Lab Sample ID: 6033.005      Date Received: 04/27/00

Lab File ID: G0894      Date Analyzed: 04/27/00

Purge Volume: 20 (mL)      Dilution Factor: 1.0

GC Column: DB-624      ID: 0.53 (mm) Length: 60 (m)

Number TICs found:      0

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC.<br>(ug/L) | Q |
|------------|---------------|----|----------------------|---|
| 1.         |               |    |                      |   |
| 2.         |               |    |                      |   |
| 3.         |               |    |                      |   |
| 4.         |               |    |                      |   |
| 5.         |               |    |                      |   |
| 6.         |               |    |                      |   |
| 7.         |               |    |                      |   |
| 8.         |               |    |                      |   |
| 9.         |               |    |                      |   |
| 10.        |               |    |                      |   |
| 11.        |               |    |                      |   |
| 12.        |               |    |                      |   |
| 13.        |               |    |                      |   |
| 14.        |               |    |                      |   |
| 15.        |               |    |                      |   |
| 16.        |               |    |                      |   |
| 17.        |               |    |                      |   |
| 18.        |               |    |                      |   |
| 19.        |               |    |                      |   |
| 20.        |               |    |                      |   |
| 21.        |               |    |                      |   |
| 22.        |               |    |                      |   |
| 23.        |               |    |                      |   |
| 24.        |               |    |                      |   |
| 25.        |               |    |                      |   |
| 26.        |               |    |                      |   |
| 27.        |               |    |                      |   |
| 28.        |               |    |                      |   |
| 29.        |               |    |                      |   |
| 30.        |               |    |                      |   |

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

110A

EPA SAMPLE NO.

EDPNO

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: EDCF6

Lab Sample ID: 6033.018

Date Received: 04/27/00

Lab File ID: G0921

Date Analyzed: 04/28/00

Purge Volume: 20 (mL)

Dilution Factor: 1.0

GC Column: DB-624

ID: 0.53 (mm) Length: 60 (m)

| CAS NO.    | COMPOUND                    | CONCENTRATION (ug/L) | Q |
|------------|-----------------------------|----------------------|---|
| 74-87-3    | Chloromethane               | 1                    | U |
| 74-83-9    | Bromomethane                | 1                    | U |
| 75-01-4    | Vinyl chloride              | 1                    | U |
| 75-00-3    | Chloroethane                | 1                    | U |
| 75-09-2    | Methylene chloride          | 2                    | U |
| 67-64-1    | Acetone                     | 43                   |   |
| 75-15-0    | Carbon disulfide            | 1                    | U |
| 75-35-4    | 1,1-Dichloroethene          | 1                    | U |
| 75-34-3    | 1,1-Dichloroethane          | 1                    | U |
| 156-59-2   | cis-1,2-Dichloroethene      | 1                    | U |
| 156-60-5   | trans-1,2-Dichloroethene    | 1                    | U |
| 67-66-3    | Chloroform                  | 15                   |   |
| 107-06-2   | 1,2-Dichloroethane          | 1                    | U |
| 78-93-3    | 2-Butanone                  | 11                   |   |
| 74-97-5    | Bromochloromethane          | 1                    | U |
| 71-55-6    | 1,1,1-Trichloroethane       | 1                    | U |
| 56-23-5    | Carbon tetrachloride        | 1                    | U |
| 75-27-4    | Bromodichloromethane        | 6                    |   |
| 78-87-5    | 1,2-Dichloropropane         | 1                    | U |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1                    | U |
| 79-01-6    | Trichloroethene             | 1                    | U |
| 124-48-1   | Dibromochloromethane        | 3                    |   |
| 79-00-5    | 1,1,2-Trichloroethane       | 1                    | U |
| 71-43-2    | Benzene                     | 1                    | U |
| 10061-02-6 | trans-1,3-Dichloropropene   | 1                    | U |
| 75-25-2    | Bromoform                   | 1                    | U |
| 108-10-1   | 4-Methyl-2-pentanone        | 5                    | U |
| 591-78-6   | 2-Hexanone                  | 5                    | U |
| 127-18-4   | Tetrachloroethene           | 1                    | U |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 1                    | U |
| 106-93-4   | 1,2-Dibromoethane           | 1                    | U |
| 108-88-3   | Toluene                     | 1                    | U |
| 108-90-7   | Chlorobenzene               | 1                    | U |
| 100-41-4   | Ethylbenzene                | 1                    | U |
| 100-42-5   | Styrene                     | 1                    | U |
| 1330-20-7  | Xylenes (total)             | 1                    | U |
| 541-73-1   | 1,3-Dichlorobenzene         | 1                    | U |
| 106-46-7   | 1,4-Dichlorobenzene         | 1                    | U |
| 95-50-1    | 1,2-Dichlorobenzene         | 1                    | U |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | 1                    | U |
| 120-82-1   | 1,2,4-Trichlorobenzene      | 1                    | U |

1LCE  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EDPN0

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004

Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: EDCF6

Lab Sample ID: 6033.018      Date Received: 04/27/00

Lab File ID: G0921      Date Analyzed: 04/28/00

Purge Volume: 20 (mL)      Dilution Factor: 1.0

GC Column: DB-624      ID: 0.53 (mm) Length: 60 (m)

Number TICs found: 1

| CAS NUMBER     | COMPOUND NAME | RT    | EST. CONC.<br>(ug/L) | Q     |
|----------------|---------------|-------|----------------------|-------|
| 1. 000110-82-7 | Cyc hexane    | 13.77 | 7                    | UN    |
| 2. _____       | _____         | _____ | _____                | _____ |
| 3. _____       | _____         | _____ | _____                | _____ |
| 4. _____       | _____         | _____ | _____                | _____ |
| 5. _____       | _____         | _____ | _____                | _____ |
| 6. _____       | _____         | _____ | _____                | _____ |
| 7. _____       | _____         | _____ | _____                | _____ |
| 8. _____       | _____         | _____ | _____                | _____ |
| 9. _____       | _____         | _____ | _____                | _____ |
| 10. _____      | _____         | _____ | _____                | _____ |
| 11. _____      | _____         | _____ | _____                | _____ |
| 12. _____      | _____         | _____ | _____                | _____ |
| 13. _____      | _____         | _____ | _____                | _____ |
| 14. _____      | _____         | _____ | _____                | _____ |
| 15. _____      | _____         | _____ | _____                | _____ |
| 16. _____      | _____         | _____ | _____                | _____ |
| 17. _____      | _____         | _____ | _____                | _____ |
| 18. _____      | _____         | _____ | _____                | _____ |
| 19. _____      | _____         | _____ | _____                | _____ |
| 20. _____      | _____         | _____ | _____                | _____ |
| 21. _____      | _____         | _____ | _____                | _____ |
| 22. _____      | _____         | _____ | _____                | _____ |
| 23. _____      | _____         | _____ | _____                | _____ |
| 24. _____      | _____         | _____ | _____                | _____ |
| 25. _____      | _____         | _____ | _____                | _____ |
| 26. _____      | _____         | _____ | _____                | _____ |
| 27. _____      | _____         | _____ | _____                | _____ |
| 28. _____      | _____         | _____ | _____                | _____ |
| 29. _____      | _____         | _____ | _____                | _____ |
| 30. _____      | _____         | _____ | _____                | _____ |

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

11CA

EPA SAMPLE NO.

EDPN1

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: EDCF6

Lab Sample ID: 6033.014

Date Received: 04/27/00

Lab File ID: G0918

Date Analyzed: 04/28/00

Purge Volume: 20 (mL)

Dilution Factor: 1.0

GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

| CAS NO.    | COMPOUND                    | CONCENTRATION (ug/L) | Q |
|------------|-----------------------------|----------------------|---|
| 74-87-3    | Chloromethane               | 1                    | U |
| 74-83-9    | Bromomethane                | 1                    | U |
| 75-01-4    | Vinyl chloride              | 1                    | U |
| 75-00-3    | Chloroethane                | 1                    | U |
| 75-09-2    | Methylene chloride          | 2                    | U |
| 67-64-1    | Acetone                     | 5                    | U |
| 75-15-0    | Carbon disulfide            | 1                    | U |
| 75-35-4    | 1,1-Dichloroethene          | 1                    | U |
| 75-34-3    | 1,1-Dichloroethane          | 1                    | U |
| 156-59-2   | cis-1,2-Dichloroethene      | 1                    | U |
| 156-60-5   | trans-1,2-Dichloroethene    | 1                    | U |
| 67-66-3    | Chloroform                  | 1                    | U |
| 107-06-2   | 1,2-Dichloroethane          | 1                    | U |
| 78-93-3    | 2-Butanone                  | 5                    | U |
| 74-97-5    | Bromochloromethane          | 1                    | U |
| 71-55-6    | 1,1,1-Trichloroethane       | 1                    | U |
| 56-23-5    | Carbon tetrachloride        | 1                    | U |
| 75-27-4    | Bromodichloromethane        | 1                    | U |
| 78-87-5    | 1,2-Dichloropropane         | 1                    | U |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1                    | U |
| 79-01-6    | Trichloroethene             | 1                    | U |
| 124-48-1   | Dibromochloromethane        | 1                    | U |
| 79-00-5    | 1,1,2-Trichloroethane       | 1                    | U |
| 71-43-2    | Benzene                     | 1                    | U |
| 10061-02-6 | trans-1,3-Dichloropropene   | 1                    | U |
| 75-25-2    | Bromoform                   | 1                    | U |
| 108-10-1   | 4-Methyl-2-pentanone        | 5                    | U |
| 591-78-6   | 2-Hexanone                  | 5                    | U |
| 127-18-4   | Tetrachloroethene           | 1                    | U |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 1                    | U |
| 106-93-4   | 1,2-Dibromoethane           | 1                    | U |
| 108-88-3   | Toluene                     | 1                    | U |
| 108-90-7   | Chlorobenzene               | 1                    | U |
| 100-41-4   | Ethylbenzene                | 1                    | U |
| 100-42-5   | Styrene                     | 1                    | U |
| 1330-20-7  | Xylenes (total)             | 1                    | U |
| 541-73-1   | 1,3-Dichlorobenzene         | 1                    | U |
| 106-46-7   | 1,4-Dichlorobenzene         | 1                    | U |
| 95-50-1    | 1,2-Dichlorobenzene         | 1                    | U |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | 1                    | U |
| 120-82-1   | 1,2,4-Trichlorobenzene      | 1                    | U |

0140

1LCE  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EDPN1

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004

Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: EDCF6

Lab Sample ID: 6033.014      Date Received: 04/27/00

Lab File ID: G0918      Date Analyzed: 04/28/00

Purge Volume: 20 (mL)      Dilution Factor: 1.0

GC Column: DB-624      ID: 0.53 (mm) Length: 60 (m)

Number TICs found: 0

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC.<br>(ug/L) | Q |
|------------|---------------|----|----------------------|---|
| 1.         |               |    |                      |   |
| 2.         |               |    |                      |   |
| 3.         |               |    |                      |   |
| 4.         |               |    |                      |   |
| 5.         |               |    |                      |   |
| 6.         |               |    |                      |   |
| 7.         |               |    |                      |   |
| 8.         |               |    |                      |   |
| 9.         |               |    |                      |   |
| 10.        |               |    |                      |   |
| 11.        |               |    |                      |   |
| 12.        |               |    |                      |   |
| 13.        |               |    |                      |   |
| 14.        |               |    |                      |   |
| 15.        |               |    |                      |   |
| 16.        |               |    |                      |   |
| 17.        |               |    |                      |   |
| 18.        |               |    |                      |   |
| 19.        |               |    |                      |   |
| 20.        |               |    |                      |   |
| 21.        |               |    |                      |   |
| 22.        |               |    |                      |   |
| 23.        |               |    |                      |   |
| 24.        |               |    |                      |   |
| 25.        |               |    |                      |   |
| 26.        |               |    |                      |   |
| 27.        |               |    |                      |   |
| 28.        |               |    |                      |   |
| 29.        |               |    |                      |   |
| 30.        |               |    |                      |   |

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

ILCA

EPA SAMPLE NO.

EDPN2

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: EDCF6

Lab Sample ID: 6033.015

Date Received: 04/27/00

Lab File ID: G0919

Date Analyzed: 04/28/00

Purge Volume: 20 (mL)

Dilution Factor: 1.0

GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

| CAS NO.    | COMPOUND                    | CONCENTRATION (ug/L) | Q |
|------------|-----------------------------|----------------------|---|
| 74-87-3    | Chloromethane               | 1                    | U |
| 74-83-9    | Bromomethane                | 1                    | U |
| 75-01-4    | Vinyl chloride              | 1                    | U |
| 75-00-3    | Chloroethane                | 1                    | U |
| 75-09-2    | Methylene chloride          | 2                    | U |
| 67-64-1    | Acetone                     | 5                    | U |
| 75-15-0    | Carbon disulfide            | 1                    | U |
| 75-35-4    | 1,1-Dichloroethene          | 1                    | U |
| 75-34-3    | 1,1-Dichloroethane          | 1                    | U |
| 156-59-2   | cis-1,2-Dichloroethene      | 1                    | U |
| 156-60-5   | trans-1,2-Dichloroethene    | 1                    | U |
| 67-66-3    | Chloroform                  | 1                    | U |
| 107-06-2   | 1,2-Dichloroethane          | 1                    | U |
| 78-93-3    | 2-Butanone                  | 5                    | U |
| 74-97-5    | Bromochloromethane          | 1                    | U |
| 71-55-6    | 1,1,1-Trichloroethane       | 1                    | U |
| 56-23-5    | Carbon tetrachloride        | 1                    | U |
| 75-27-4    | Bromodichloromethane        | 1                    | U |
| 78-87-5    | 1,2-Dichloropropane         | 1                    | U |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1                    | U |
| 79-01-6    | Trichloroethene             | 1                    | U |
| 124-48-1   | Dibromochloromethane        | 1                    | U |
| 79-00-5    | 1,1,2-Trichloroethane       | 1                    | U |
| 71-43-2    | Benzene                     | 1                    | U |
| 10061-02-6 | trans-1,3-Dichloropropene   | 1                    | U |
| 75-25-2    | Bromoform                   | 1                    | U |
| 108-10-1   | 4-Methyl-2-pentanone        | 5                    | U |
| 591-78-6   | 2-Hexanone                  | 5                    | U |
| 127-18-4   | Tetrachloroethene           | 1                    | U |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 1                    | U |
| 106-93-4   | 1,2-Dibromoethane           | 1                    | U |
| 108-88-3   | Toluene                     | 1                    | U |
| 108-90-7   | Chlorobenzene               | 1                    | U |
| 100-41-4   | Ethylbenzene                | 1                    | U |
| 100-42-5   | Styrene                     | 1                    | U |
| 1330-20-7  | Xylenes (total)             | 1                    | U |
| 541-73-1   | 1,3-Dichlorobenzene         | 1                    | U |
| 106-46-7   | 1,4-Dichlorobenzene         | 1                    | U |
| 95-50-1    | 1,2-Dichlorobenzene         | 1                    | U |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | 1                    | U |
| 120-82-1   | 1,2,4-Trichlorobenzene      | 1                    | U |

1LCE  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EDPN2

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004

Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: EDCF6

Lab Sample ID: 6033.015      Date Received: 04/27/00

Lab File ID: G0919      Date Analyzed: 04/28/00

Purge Volume: 20      (mL)      Dilution Factor: 1.0

GC Column: DB-624      ID: 0.53 (mm) Length: 60      (m)

Number TICs found:      0

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC.<br>(ug/L) | Q |
|------------|---------------|----|----------------------|---|
| 1.         |               |    |                      |   |
| 2.         |               |    |                      |   |
| 3.         |               |    |                      |   |
| 4.         |               |    |                      |   |
| 5.         |               |    |                      |   |
| 6.         |               |    |                      |   |
| 7.         |               |    |                      |   |
| 8.         |               |    |                      |   |
| 9.         |               |    |                      |   |
| 10.        |               |    |                      |   |
| 11.        |               |    |                      |   |
| 12.        |               |    |                      |   |
| 13.        |               |    |                      |   |
| 14.        |               |    |                      |   |
| 15.        |               |    |                      |   |
| 16.        |               |    |                      |   |
| 17.        |               |    |                      |   |
| 18.        |               |    |                      |   |
| 19.        |               |    |                      |   |
| 20.        |               |    |                      |   |
| 21.        |               |    |                      |   |
| 22.        |               |    |                      |   |
| 23.        |               |    |                      |   |
| 24.        |               |    |                      |   |
| 25.        |               |    |                      |   |
| 26.        |               |    |                      |   |
| 27.        |               |    |                      |   |
| 28.        |               |    |                      |   |
| 29.        |               |    |                      |   |
| 30.        |               |    |                      |   |

11CA  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDPN3

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

Lab Code: PDP Case No.: 27986 SAS No.: \_\_\_\_\_ SDG No.: EDCF6

Lab Sample ID: 6033.016 Date Received: 04/27/00

Lab File ID: G0898 Date Analyzed: 04/27/00

Purge Volume: 20 (mL) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

| CAS NO.    | COMPOUND                    | CONCENTRATION<br>(ug/L) | Q |
|------------|-----------------------------|-------------------------|---|
| 74-87-3    | Chloromethane               | 1                       | U |
| 74-83-9    | Bromomethane                | 1                       | U |
| 75-01-4    | Vinyl chloride              | 1                       | U |
| 75-00-3    | Chloroethane                | 1                       | U |
| 75-09-2    | Methylene chloride          | 1                       | J |
| 67-64-1    | Acetone                     | 5                       | U |
| 75-15-0    | Carbon disulfide            | 1                       | U |
| 75-35-4    | 1,1-Dichloroethene          | 1                       | U |
| 75-34-3    | 1,1-Dichloroethane          | 1                       | U |
| 156-59-2   | cis-1,2-Dichloroethene      | 1                       | U |
| 156-60-5   | trans-1,2-Dichloroethene    | 1                       | U |
| 67-66-3    | Chloroform                  | 1                       | U |
| 107-06-2   | 1,2-Dichloroethane          | 1                       | U |
| 78-93-3    | 2-Butanone                  | 5                       | U |
| 74-97-5    | Bromochloromethane          | 1                       | U |
| 71-55-6    | 1,1,1-Trichloroethane       | 1                       | U |
| 56-23-5    | Carbon tetrachloride        | 1                       | U |
| 75-27-4    | Bromodichloromethane        | 1                       | U |
| 78-87-5    | 1,2-Dichloropropane         | 1                       | U |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1                       | U |
| 79-01-6    | Trichloroethene             | 1                       | U |
| 124-48-1   | Dibromochloromethane        | 1                       | U |
| 79-00-5    | 1,1,2-Trichloroethane       | 1                       | U |
| 71-43-2    | Benzene                     | 1                       | U |
| 10061-02-6 | trans-1,3-Dichloropropene   | 1                       | U |
| 75-25-2    | Bromoform                   | 1                       | U |
| 108-10-1   | 4-Methyl-2-pentanone        | 5                       | U |
| 591-78-6   | 2-Hexanone                  | 5                       | U |
| 127-18-4   | Tetrachloroethene           | 1                       | U |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 1                       | U |
| 106-93-4   | 1,2-Dibromoethane           | 1                       | U |
| 108-88-3   | Toluene                     | 1                       | U |
| 108-90-7   | Chlorobenzene               | 1                       | U |
| 100-41-4   | Ethylbenzene                | 1                       | U |
| 100-42-5   | Styrene                     | 1                       | U |
| 1330-20-7  | Xylenes (total)             | 1                       | U |
| 541-73-1   | 1,3-Dichlorobenzene         | 1                       | U |
| 106-46-7   | 1,4-Dichlorobenzene         | 1                       | U |
| 95-50-1    | 1,2-Dichlorobenzene         | 1                       | U |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | 1                       | U |
| 120-82-1   | 1,2,4-Trichlorobenzene      | 1                       | U |

1LCE  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO. \_\_\_\_\_

EDPN3

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004

Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: EDCF6

Lab Sample ID: 6033.016      Date Received: 04/27/00

Lab File ID: G0898      Date Analyzed: 04/27/00

Purge Volume: 20 (mL)      Dilution Factor: 1.0

GC Column: DB-624      ID: 0.53 (mm) Length: 60 (m)

Number TICs found:      0

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC.<br>(ug/L) | Q |
|------------|---------------|----|----------------------|---|
| 1.         |               |    |                      |   |
| 2.         |               |    |                      |   |
| 3.         |               |    |                      |   |
| 4.         |               |    |                      |   |
| 5.         |               |    |                      |   |
| 6.         |               |    |                      |   |
| 7.         |               |    |                      |   |
| 8.         |               |    |                      |   |
| 9.         |               |    |                      |   |
| 10.        |               |    |                      |   |
| 11.        |               |    |                      |   |
| 12.        |               |    |                      |   |
| 13.        |               |    |                      |   |
| 14.        |               |    |                      |   |
| 15.        |               |    |                      |   |
| 16.        |               |    |                      |   |
| 17.        |               |    |                      |   |
| 18.        |               |    |                      |   |
| 19.        |               |    |                      |   |
| 20.        |               |    |                      |   |
| 21.        |               |    |                      |   |
| 22.        |               |    |                      |   |
| 23.        |               |    |                      |   |
| 24.        |               |    |                      |   |
| 25.        |               |    |                      |   |
| 26.        |               |    |                      |   |
| 27.        |               |    |                      |   |
| 28.        |               |    |                      |   |
| 29.        |               |    |                      |   |
| 30.        |               |    |                      |   |

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

ILCA

EPA SAMPLE NO.

EDPN4

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: EDCF6

Lab Sample ID: 6033.017

Date Received: 04/27/00

Lab File ID: G0920

Date Analyzed: 04/28/00

Purge Volume: 20 (mL)

Dilution Factor: 1.0

GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

| CAS NO.    | COMPOUND                    | CONCENTRATION (ug/L) | Q |
|------------|-----------------------------|----------------------|---|
| 74-87-3    | Chloromethane               | 1                    | U |
| 74-83-9    | Bromomethane                | 1                    | U |
| 75-01-4    | Vinyl chloride              | 1                    | U |
| 75-00-3    | Chloroethane                | 1                    | U |
| 75-09-2    | Methylene chloride          | 2                    | U |
| 67-64-1    | Acetone                     | 5                    | U |
| 75-15-0    | Carbon disulfide            | 1                    | U |
| 75-35-4    | 1,1-Dichloroethene          | 1                    | U |
| 75-34-3    | 1,1-Dichloroethane          | 1                    | U |
| 156-59-2   | cis-1,2-Dichloroethene      | 1                    | U |
| 156-60-5   | trans-1,2-Dichloroethene    | 1                    | U |
| 67-66-3    | Chloroform                  | 1                    | U |
| 107-06-2   | 1,2-Dichloroethane          | 1                    | U |
| 78-93-3    | 2-Butanone                  | 5                    | U |
| 74-97-5    | Bromochloromethane          | 1                    | U |
| 71-55-6    | 1,1,1-Trichloroethane       | 1                    | U |
| 56-23-5    | Carbon tetrachloride        | 1                    | U |
| 75-27-4    | Bromodichloromethane        | 1                    | U |
| 78-87-5    | 1,2-Dichloropropane         | 1                    | U |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1                    | U |
| 79-01-6    | Trichloroethene             | 1                    | U |
| 124-48-1   | Dibromochloromethane        | 1                    | U |
| 79-00-5    | 1,1,2-Trichloroethane       | 1                    | U |
| 71-43-2    | Benzene                     | 1                    | U |
| 10061-02-6 | trans-1,3-Dichloropropene   | 1                    | U |
| 75-25-2    | Bromoform                   | 1                    | U |
| 108-10-1   | 4-Methyl-2-pentanone        | 5                    | U |
| 591-78-6   | 2-Hexanone                  | 5                    | U |
| 127-18-4   | Tetrachloroethene           | 1                    | U |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 1                    | U |
| 106-93-4   | 1,2-Dibromoethane           | 1                    | U |
| 108-88-3   | Toluene                     | 1                    | U |
| 108-90-7   | Chlorobenzene               | 1                    | U |
| 100-41-4   | Ethylbenzene                | 1                    | U |
| 100-42-5   | Styrene                     | 1                    | U |
| 1330-20-7  | Xylenes (total)             | 1                    | U |
| 541-73-1   | 1,3-Dichlorobenzene         | 1                    | U |
| 106-46-7   | 1,4-Dichlorobenzene         | 1                    | U |
| 95-50-1    | 1,2-Dichlorobenzene         | 1                    | U |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | 1                    | U |
| 120-82-1   | 1,2,4-Trichlorobenzene      | 1                    | U |

1LCE  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO. \_\_\_\_\_

EDPN4

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004

Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: EDCF6

Lab Sample ID: 6033.017      Date Received: 04/27/00

Lab File ID: G0920      Date Analyzed: 04/28/00

Purge Volume: 20 (mL)      Dilution Factor: 1.0

GC Column: DB-624      ID: 0.53 (mm) Length: 60 (m)

Number TICs found: 0

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC.<br>(ug/L) | Q |
|------------|---------------|----|----------------------|---|
| 1.         |               |    |                      |   |
| 2.         |               |    |                      |   |
| 3.         |               |    |                      |   |
| 4.         |               |    |                      |   |
| 5.         |               |    |                      |   |
| 6.         |               |    |                      |   |
| 7.         |               |    |                      |   |
| 8.         |               |    |                      |   |
| 9.         |               |    |                      |   |
| 10.        |               |    |                      |   |
| 11.        |               |    |                      |   |
| 12.        |               |    |                      |   |
| 13.        |               |    |                      |   |
| 14.        |               |    |                      |   |
| 15.        |               |    |                      |   |
| 16.        |               |    |                      |   |
| 17.        |               |    |                      |   |
| 18.        |               |    |                      |   |
| 19.        |               |    |                      |   |
| 20.        |               |    |                      |   |
| 21.        |               |    |                      |   |
| 22.        |               |    |                      |   |
| 23.        |               |    |                      |   |
| 24.        |               |    |                      |   |
| 25.        |               |    |                      |   |
| 26.        |               |    |                      |   |
| 27.        |               |    |                      |   |
| 28.        |               |    |                      |   |
| 29.        |               |    |                      |   |
| 30.        |               |    |                      |   |

1LCA  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDPNS

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

Lab Code: PDP Case No.: 27986 SAS No.: \_\_\_\_\_ SDG No.: EDCF6

Lab Sample ID: 6033.006 Date Received: 04/27/00

Lab File ID: G0899 Date Analyzed: 04/28/00

Purge Volume: 20 (mL) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

| CAS NO.    | COMPOUND                    | CONCENTRATION<br>(ug/L) | Q |
|------------|-----------------------------|-------------------------|---|
| 74-87-3    | Chloromethane               | 1                       | U |
| 74-83-9    | Bromomethane                | 1                       | U |
| 75-01-4    | Vinyl chloride              | 1                       | U |
| 75-00-3    | Chloroethane                | 1                       | U |
| 75-09-2    | Methylene chloride          | 2                       | U |
| 67-64-1    | Acetone                     | 5                       | U |
| 75-15-0    | Carbon disulfide            | 1                       | U |
| 75-35-4    | 1,1-Dichloroethene          | 1                       | U |
| 75-34-3    | 1,1-Dichloroethane          | 1                       | U |
| 156-59-2   | cis-1,2-Dichloroethene      | 1                       | U |
| 156-60-5   | trans-1,2-Dichloroethene    | 1                       | U |
| 67-66-3    | Chloroform                  | 1                       | U |
| 107-06-2   | 1,2-Dichloroethane          | 1                       | U |
| 78-93-3    | 2-Butanone                  | 5                       | U |
| 74-97-5    | Bromochloromethane          | 1                       | U |
| 71-55-6    | 1,1,1-Trichloroethane       | 1                       | U |
| 56-23-5    | Carbon tetrachloride        | 1                       | U |
| 75-27-4    | Bromodichloromethane        | 1                       | U |
| 78-87-5    | 1,2-Dichloropropane         | 1                       | U |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1                       | U |
| 79-01-6    | Trichloroethene             | 1                       | U |
| 124-48-1   | Dibromochloromethane        | 1                       | U |
| 79-00-5    | 1,1,2-Trichloroethane       | 1                       | U |
| 71-43-2    | Benzene                     | 1                       | U |
| 10061-02-6 | trans-1,3-Dichloropropene   | 1                       | U |
| 75-25-2    | Bromoform                   | 1                       | U |
| 108-10-1   | 4-Methyl-2-pentanone        | 5                       | U |
| 591-78-6   | 2-Hexanone                  | 5                       | U |
| 127-18-4   | Tetrachloroethene           | 1                       | U |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 1                       | U |
| 106-93-4   | 1,2-Dibromoethane           | 1                       | U |
| 108-88-3   | Toluene                     | 1                       | U |
| 108-90-7   | Chlorobenzene               | 1                       | U |
| 100-41-4   | Ethylbenzene                | 1                       | U |
| 100-42-5   | Styrene                     | 1                       | U |
| 1330-20-7  | Xylenes (total)             | 1                       | U |
| 541-73-1   | 1,3-Dichlorobenzene         | 1                       | U |
| 106-46-7   | 1,4-Dichlorobenzene         | 1                       | U |
| 95-50-1    | 1,2-Dichlorobenzene         | 1                       | U |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | 1                       | U |
| 120-82-1   | 1,2,4-Trichlorobenzene      | 1                       | U |

1LCE  
LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO

EDPN5

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: EDCF6

Lab Sample ID: 6033.006

Date Received: 04/27/00

Lab File ID: G0899

Date Analyzed: 04/28/00

Purge Volume: 20 (mL)

Dilution Factor: 1.0

GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

Number TICs found: 0

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC.<br>(ug/L) | Q |
|------------|---------------|----|----------------------|---|
| 1.         |               |    |                      |   |
| 2.         |               |    |                      |   |
| 3.         |               |    |                      |   |
| 4.         |               |    |                      |   |
| 5.         |               |    |                      |   |
| 6.         |               |    |                      |   |
| 7.         |               |    |                      |   |
| 8.         |               |    |                      |   |
| 9.         |               |    |                      |   |
| 10.        |               |    |                      |   |
| 11.        |               |    |                      |   |
| 12.        |               |    |                      |   |
| 13.        |               |    |                      |   |
| 14.        |               |    |                      |   |
| 15.        |               |    |                      |   |
| 16.        |               |    |                      |   |
| 17.        |               |    |                      |   |
| 18.        |               |    |                      |   |
| 19.        |               |    |                      |   |
| 20.        |               |    |                      |   |
| 21.        |               |    |                      |   |
| 22.        |               |    |                      |   |
| 23.        |               |    |                      |   |
| 24.        |               |    |                      |   |
| 25.        |               |    |                      |   |
| 26.        |               |    |                      |   |
| 27.        |               |    |                      |   |
| 28.        |               |    |                      |   |
| 29.        |               |    |                      |   |
| 30.        |               |    |                      |   |

11CA  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO

EDPN6

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

Lab Code: PDP Case No.: 27986 SAS No.: \_\_\_\_\_ SDG No.: EDCF6

Lab Sample ID: 6033.007 Date Received: 04/27/00

Lab File ID: G0901 Date Analyzed: 04/28/00

Purge Volume: 20 (mL) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

| CAS NO.    | COMPOUND                         | CONCENTRATION<br>(ug/L) | Q |
|------------|----------------------------------|-------------------------|---|
| 74-87-3    | -----Chloromethane               | 1                       | U |
| 74-83-9    | -----Bromomethane                | 1                       | U |
| 75-01-4    | -----Vinyl chloride              | 1                       | U |
| 75-00-3    | -----Chloroethane                | 1                       | U |
| 75-09-2    | -----Methylene chloride          | 2                       | U |
| 67-64-1    | -----Acetone                     | 5                       | U |
| 75-15-0    | -----Carbon disulfide            | 1                       | U |
| 75-35-4    | -----1,1-Dichloroethene          | 1                       | U |
| 75-34-3    | -----1,1-Dichloroethane          | 4                       |   |
| 156-59-2   | -----cis-1,2-Dichloroethene      | 1                       |   |
| 156-60-5   | -----trans-1,2-Dichloroethene    | 1                       | U |
| 67-66-3    | -----Chloroform                  | 1                       | U |
| 107-06-2   | -----1,2-Dichloroethane          | 1                       | U |
| 78-93-3    | -----2-Butanone                  | 5                       | U |
| 74-97-5    | -----Bromochloromethane          | 1                       | U |
| 71-55-6    | -----1,1,1-Trichloroethane       | 1                       | U |
| 56-23-5    | -----Carbon tetrachloride        | 1                       | U |
| 75-27-4    | -----Bromodichloromethane        | 1                       | U |
| 78-87-5    | -----1,2-Dichloropropane         | 2                       |   |
| 10061-01-5 | -----cis-1,3-Dichloropropene     | 1                       | U |
| 79-01-6    | -----Trichloroethene             | 1                       | U |
| 124-48-1   | -----Dibromochloromethane        | 1                       | U |
| 79-00-5    | -----1,1,2-Trichloroethane       | 1                       | U |
| 71-43-2    | -----Benzene                     | 1                       |   |
| 10061-02-6 | -----trans-1,3-Dichloropropene   | 1                       | U |
| 75-25-2    | -----Bromoform                   | 1                       | U |
| 108-10-1   | -----4-Methyl-2-pentanone        | 5                       | U |
| 591-78-6   | -----2-Hexanone                  | 5                       | U |
| 127-18-4   | -----Tetrachloroethene           | 1                       | U |
| 79-34-5    | -----1,1,2,2-Tetrachloroethane   | 1                       | U |
| 106-93-4   | -----1,2-Dibromoethane           | 1                       | U |
| 108-88-3   | -----Toluene                     | 1                       | U |
| 108-90-7   | -----Chlorobenzene               | 1                       | U |
| 100-41-4   | -----Ethylbenzene                | 1                       | U |
| 100-42-5   | -----Styrene                     | 1                       | U |
| 1330-20-7  | -----Xylenes (total)             | 1                       | U |
| 541-73-1   | -----1,3-Dichlorobenzene         | 1                       | U |
| 106-46-7   | -----1,4-Dichlorobenzene         | 1                       | U |
| 95-50-1    | -----1,2-Dichlorobenzene         | 1                       | U |
| 96-12-8    | -----1,2-Dibromo-3-chloropropane | 1                       | U |
| 120-82-1   | -----1,2,4-Trichlorobenzene      | 1                       | U |

1LCE  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EDPN6

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004

Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: EDCF6

Lab Sample ID: 6033.007      Date Received: 04/27/00

Lab File ID: G0901      Date Analyzed: 04/28/00

Purge Volume: 20 (mL)      Dilution Factor: 1.0

GC Column: DB-624      ID: 0.53 (mm) Length: 60 (m)

Number TICs found: 2

| CAS NUMBER     | COMPOUND NAME            | RT   | EST. CONC.<br>(ug/L) | Q  |
|----------------|--------------------------|------|----------------------|----|
| 1. 000075-43-4 | Methane, dichlorofluoro- | 6.13 | 9                    | JN |
| 2. 000060-29-7 | Ethyl ether              | 6.92 | 5                    | JN |
| 3.             |                          |      |                      |    |
| 4.             |                          |      |                      |    |
| 5.             |                          |      |                      |    |
| 6.             |                          |      |                      |    |
| 7.             |                          |      |                      |    |
| 8.             |                          |      |                      |    |
| 9.             |                          |      |                      |    |
| 10.            |                          |      |                      |    |
| 11.            |                          |      |                      |    |
| 12.            |                          |      |                      |    |
| 13.            |                          |      |                      |    |
| 14.            |                          |      |                      |    |
| 15.            |                          |      |                      |    |
| 16.            |                          |      |                      |    |
| 17.            |                          |      |                      |    |
| 18.            |                          |      |                      |    |
| 19.            |                          |      |                      |    |
| 20.            |                          |      |                      |    |
| 21.            |                          |      |                      |    |
| 22.            |                          |      |                      |    |
| 23.            |                          |      |                      |    |
| 24.            |                          |      |                      |    |
| 25.            |                          |      |                      |    |
| 26.            |                          |      |                      |    |
| 27.            |                          |      |                      |    |
| 28.            |                          |      |                      |    |
| 29.            |                          |      |                      |    |
| 30.            |                          |      |                      |    |

11CA  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDPN7

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: EDCF6

Lab Sample ID: 6033.008

Date Received: 04/27/00

Lab File ID: G0903

Date Analyzed: 04/28/00

Purge Volume: 20 (mL)

Dilution Factor: 1.0

GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

| CAS NO.    | COMPOUND                    | CONCENTRATION<br>(ug/L) | Q |
|------------|-----------------------------|-------------------------|---|
| 74-87-3    | Chloromethane               | 1                       | U |
| 74-83-9    | Bromomethane                | 1                       | U |
| 75-01-4    | Vinyl chloride              | 1                       | U |
| 75-00-3    | Chloroethane                | 1                       | U |
| 75-09-2    | Methylene chloride          | 2                       | U |
| 67-64-1    | Acetone                     | 5                       | U |
| 75-15-0    | Carbon disulfide            | 0.5                     | J |
| 75-35-4    | 1,1-Dichloroethene          | 1                       | U |
| 75-34-3    | 1,1-Dichloroethane          | 1                       | U |
| 156-59-2   | cis-1,2-Dichloroethene      | 0.7                     | J |
| 156-60-5   | trans-1,2-Dichloroethene    | 1                       | U |
| 67-66-3    | Chloroform                  | 1                       | U |
| 107-06-2   | 1,2-Dichloroethane          | 1                       | U |
| 78-93-3    | 2-Butanone                  | 5                       | U |
| 74-97-5    | Bromochloromethane          | 1                       | U |
| 71-55-6    | 1,1,1-Trichloroethane       | 1                       | U |
| 56-23-5    | Carbon tetrachloride        | 1                       | U |
| 75-27-4    | Bromodichloromethane        | 1                       | U |
| 78-87-5    | 1,2-Dichloropropane         | 1                       | U |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1                       | U |
| 79-01-6    | Trichloroethene             | 1                       | U |
| 124-48-1   | Dibromochloromethane        | 1                       | U |
| 79-00-5    | 1,1,2-Trichloroethane       | 1                       | U |
| 71-43-2    | Benzene                     | 0.9                     | J |
| 10061-02-6 | trans-1,3-Dichloropropene   | 1                       | U |
| 75-25-2    | Bromoform                   | 1                       | U |
| 108-10-1   | 4-Methyl-2-pentanone        | 5                       | U |
| 591-78-6   | 2-Hexanone                  | 5                       | U |
| 127-18-4   | Tetrachloroethene           | 1                       | U |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 1                       | U |
| 106-93-4   | 1,2-Dibromoethane           | 1                       | U |
| 108-88-3   | Toluene                     | 1                       | U |
| 108-90-7   | Chlorobenzene               | 1                       | U |
| 100-41-4   | Ethylbenzene                | 1                       | U |
| 100-42-5   | Styrene                     | 1                       | U |
| 1330-20-7  | Xylenes (total)             | 1                       | U |
| 541-73-1   | 1,3-Dichlorobenzene         | 1                       | U |
| 106-46-7   | 1,4-Dichlorobenzene         | 1                       | U |
| 95-50-1    | 1,2-Dichlorobenzene         | 1                       | U |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | 1                       | U |
| 120-82-1   | 1,2,4-Trichlorobenzene      | 1                       | U |

1LCE  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EDPN7

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: EDCF6

Lab Sample ID: 6033.008

Date Received: 04/27/00

Lab File ID: G0903

Date Analyzed: 04/28/00

Purge Volume: 20 (mL)

Dilution Factor: 1.0

GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

Number TICs found: 2

| CAS NUMBER     | COMPOUND NAME            | RT   | EST. CONC.<br>(ug/L) | Q  |
|----------------|--------------------------|------|----------------------|----|
| 1. 000075-43-4 | Methane, dichlorofluoro- | 6.13 | 4                    | JN |
| 2. 000060-29-7 | Ethyl ether              | 6.91 | 5                    | JN |
| 3.             |                          |      |                      |    |
| 4.             |                          |      |                      |    |
| 5.             |                          |      |                      |    |
| 6.             |                          |      |                      |    |
| 7.             |                          |      |                      |    |
| 8.             |                          |      |                      |    |
| 9.             |                          |      |                      |    |
| 10.            |                          |      |                      |    |
| 11.            |                          |      |                      |    |
| 12.            |                          |      |                      |    |
| 13.            |                          |      |                      |    |
| 14.            |                          |      |                      |    |
| 15.            |                          |      |                      |    |
| 16.            |                          |      |                      |    |
| 17.            |                          |      |                      |    |
| 18.            |                          |      |                      |    |
| 19.            |                          |      |                      |    |
| 20.            |                          |      |                      |    |
| 21.            |                          |      |                      |    |
| 22.            |                          |      |                      |    |
| 23.            |                          |      |                      |    |
| 24.            |                          |      |                      |    |
| 25.            |                          |      |                      |    |
| 26.            |                          |      |                      |    |
| 27.            |                          |      |                      |    |
| 28.            |                          |      |                      |    |
| 29.            |                          |      |                      |    |
| 30.            |                          |      |                      |    |

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

ILCA

EPA SAMPLE NO.

VLCS94

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

Lab Code: PDP Case No.: 27986 SAS No.: \_\_\_\_\_ SDG No.: EDCF6

Lab Sample ID: GVLCS058 Date Received: \_\_\_\_\_

Lab File ID: G0892 Date Analyzed: 04/27/00

Purge Volume: 20 (mL) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

| CAS NO.    | COMPOUND                    | CONCENTRATION<br>(ug/L) | Q |
|------------|-----------------------------|-------------------------|---|
| 74-87-3    | Chloromethane               | 1                       | U |
| 74-83-9    | Bromomethane                | 1                       | U |
| 75-01-4    | Vinyl chloride              | 4                       |   |
| 75-00-3    | Chloroethane                | 1                       | U |
| 75-09-2    | Methylene chloride          | 2                       | U |
| 67-64-1    | Acetone                     | 5                       | U |
| 75-15-0    | Carbon disulfide            | 1                       | U |
| 75-35-4    | 1,1-Dichloroethene          | 1                       | U |
| 75-34-3    | 1,1-Dichloroethane          | 1                       | U |
| 156-59-2   | cis-1,2-Dichloroethene      | 1                       | U |
| 156-60-5   | trans-1,2-Dichloroethene    | 1                       | U |
| 67-66-3    | Chloroform                  | 1                       | U |
| 107-06-2   | 1,2-Dichloroethane          | 5                       |   |
| 78-93-3    | 2-Butanone                  | 5                       | U |
| 74-97-5    | Bromochloromethane          | 1                       | U |
| 71-55-6    | 1,1,1-Trichloroethane       | 1                       | U |
| 56-23-5    | Carbon tetrachloride        | 4                       |   |
| 75-27-4    | Bromodichloromethane        | 1                       | U |
| 78-87-5    | 1,2-Dichloropropane         | 5                       |   |
| 10061-01-5 | cis-1,3-Dichloropropene     | 5                       |   |
| 79-01-6    | Trichloroethene             | 4                       |   |
| 124-48-1   | Dibromochloromethane        | 1                       | U |
| 79-00-5    | 1,1,2-Trichloroethane       | 4                       |   |
| 71-43-2    | Benzene                     | 5                       |   |
| 10061-02-6 | trans-1,3-Dichloropropene   | 1                       | U |
| 75-25-2    | Bromoform                   | 4                       |   |
| 108-10-1   | 4-Methyl-2-pentanone        | 5                       | U |
| 591-78-6   | 2-Hexanone                  | 5                       | U |
| 127-18-4   | Tetrachloroethene           | 4                       |   |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 1                       | U |
| 106-93-4   | 1,2-Dibromoethane           | 4                       |   |
| 108-88-3   | Toluene                     | 1                       | U |
| 108-90-7   | Chlorobenzene               | 1                       | U |
| 100-41-4   | Ethylbenzene                | 1                       | U |
| 100-42-5   | Styrene                     | 1                       | U |
| 1330-20-7  | Xylenes (total)             | 1                       | U |
| 541-73-1   | 1,3-Dichlorobenzene         | 1                       | U |
| 106-46-7   | 1,4-Dichlorobenzene         | 4                       |   |
| 95-50-1    | 1,2-Dichlorobenzene         | 1                       | U |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | 1                       | U |
| 120-82-1   | 1,2,4-Trichlorobenzene      | 1                       | U |

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

ILCA

EPA SAMPLE NO.

VLC97

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: EDCF6

Lab Sample ID: GVLCS061

Date Received: \_\_\_\_\_

Lab File ID: G0942

Date Analyzed: 05/02/00

Purge Volume: 20 (mL)

Dilution Factor: 1.0

GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

| CAS NO.    | COMPOUND                    | CONCENTRATION (ug/L) | Q |
|------------|-----------------------------|----------------------|---|
| 74-87-3    | Chloromethane               | 1                    | U |
| 74-83-9    | Bromomethane                | 1                    | U |
| 75-01-4    | Vinyl chloride              | 4                    |   |
| 75-00-3    | Chloroethane                | 1                    | U |
| 75-09-2    | Methylene chloride          | 2                    | U |
| 67-64-1    | Acetone                     | 5                    | U |
| 75-15-0    | Carbon disulfide            | 1                    | U |
| 75-35-4    | 1,1-Dichloroethene          | 1                    | U |
| 75-34-3    | 1,1-Dichloroethane          | 1                    | U |
| 156-59-2   | cis-1,2-Dichloroethene      | 1                    | U |
| 156-60-5   | trans-1,2-Dichloroethene    | 1                    | U |
| 67-66-3    | Chloroform                  | 1                    | U |
| 107-06-2   | 1,2-Dichloroethane          | 5                    |   |
| 78-93-3    | 2-Butanone                  | 5                    | U |
| 74-97-5    | Bromochloromethane          | 1                    | U |
| 71-55-6    | 1,1,1-Trichloroethane       | 1                    | U |
| 56-23-5    | Carbon tetrachloride        | 4                    |   |
| 75-27-4    | Bromodichloromethane        | 1                    | U |
| 78-87-5    | 1,2-Dichloropropane         | 4                    |   |
| 10061-01-5 | cis-1,3-Dichloropropene     | 4                    |   |
| 79-01-6    | Trichloroethene             | 4                    |   |
| 124-48-1   | Dibromochloromethane        | 1                    | U |
| 79-00-5    | 1,1,2-Trichloroethane       | 4                    |   |
| 71-43-2    | Benzene                     | 5                    |   |
| 10061-02-6 | trans-1,3-Dichloropropene   | 1                    | U |
| 75-25-2    | Bromoform                   | 4                    |   |
| 108-10-1   | 4-Methyl-2-pentanone        | 5                    | U |
| 591-78-6   | 2-Hexanone                  | 5                    | U |
| 127-18-4   | Tetrachloroethene           | 4                    |   |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 1                    | U |
| 106-93-4   | 1,2-Dibromoethane           | 4                    |   |
| 108-88-3   | Toluene                     | 1                    | U |
| 108-90-7   | Chlorobenzene               | 1                    | U |
| 100-41-4   | Ethylbenzene                | 1                    | U |
| 100-42-5   | Styrene                     | 1                    | U |
| 1330-20-7  | Xylenes (total)             | 1                    | U |
| 541-73-1   | 1,3-Dichlorobenzene         | 1                    | U |
| 106-46-7   | 1,4-Dichlorobenzene         | 3                    |   |
| 95-50-1    | 1,2-Dichlorobenzene         | 1                    | U |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | 1                    | U |
| 120-82-1   | 1,2,4-Trichlorobenzene      | 1                    | U |

# Column to be used to flag recovery values.  
 \* Values outside of contract required QC limits.  
 D Surrogate diluted out.

NBZ = Nitrobenzene-ds (23-120)  
 FBP = 2-Fluorobiphenyl (30-115)  
 TPH = Terphenyl-d14 (18-140)  
 PHL = phenol-ds (15-115)  
 ZFP = 2-Fluorophenol (15-121)  
 TBP = 2,4,6-Tribromophenol (15-130)

QC LIMITS

| EPA        | NBZ    | FBP    | TPH    | PHL    | ZFP    | TBP    | OTHER | TOT |
|------------|--------|--------|--------|--------|--------|--------|-------|-----|
| SAMPLE NO. | %REC # | %REC # | %REC # | %REC # | %REC # | %REC # |       | OUT |
| 01         | SBLK37 | 69     | 67     | 86     | 64     | 67     | 74    | 0   |
| 02         | SLCS69 | 79     | 82     | 95     | 75     | 83     | 83    | 0   |
| 03         | EDPM3  | 53     | 51     | 42     | 53     | 53     | 62    | 0   |
| 04         | EDPM6  | 73     | 70     | 55     | 74     | 69     | 83    | 0   |
| 05         | EDPM7  | 52     | 51     | 45     | 49     | 48     | 61    | 0   |
| 06         | EDPM5  | 33     | 30     | 49     | 31     | 30     | 45    | 0   |
| 07         | EDPM6  | 56     | 51     | 59     | 54     | 54     | 62    | 0   |
| 08         | EDPM7  | 75     | 74     | 58     | 73     | 72     | 86    | 0   |
| 09         | EDCF6  | 77     | 75     | 79     | 74     | 76     | 86    | 0   |
| 10         | EDCF7  | 74     | 71     | 70     | 66     | 67     | 75    | 0   |
| 11         | EDCF8  | 75     | 70     | 53     | 72     | 74     | 78    | 0   |
| 12         | EDCF9  | 66     | 62     | 59     | 63     | 65     | 73    | 0   |
| 13         | EDPN1  | 75     | 76     | 94     | 74     | 78     | 85    | 0   |
| 14         | EDPN2  | 88     | 86     | 92     | 83     | 92     | 92    | 0   |
| 15         | EDPN4  | 66     | 65     | 73     | 62     | 63     | 70    | 0   |
| 16         | EDPN0  | 75     | 76     | 103    | 36     | 76     | 91    | 0   |
| 17         | EDCG3  | 80     | 82     | 94     | 72     | 83     | 95    | 0   |
| 18         |        |        |        |        |        |        |       |     |
| 19         |        |        |        |        |        |        |       |     |
| 20         |        |        |        |        |        |        |       |     |
| 21         |        |        |        |        |        |        |       |     |
| 22         |        |        |        |        |        |        |       |     |
| 23         |        |        |        |        |        |        |       |     |
| 24         |        |        |        |        |        |        |       |     |
| 25         |        |        |        |        |        |        |       |     |
| 26         |        |        |        |        |        |        |       |     |
| 27         |        |        |        |        |        |        |       |     |
| 28         |        |        |        |        |        |        |       |     |
| 29         |        |        |        |        |        |        |       |     |
| 30         |        |        |        |        |        |        |       |     |

2003 LOW CONC. WATER SEMI-VOLATILE SURROGATE RECOVERY

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

Lab Code: PDP Case No.: 27986 SAS No.: \_\_\_\_\_ SDG No.: EDCF6

3LCS  
 LOW CONC. WATER SEMIVOLATILE LAB CONTROL SAMPLE RECOVERY

EPA SAMPLE NO.

SLCS69

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: EDCF6

Lab Sample ID: SVOL601

LCS Lot No.:

Lab File ID: H0992

Date Extracted: 05/01/00

LCS Aliquot: 1000 (uL)

Date Analyzed: 05/11/00

Concentrated Extract Volume: 1000 (uL)

Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

| COMPOUND                   | AMOUNT<br>ADDED<br>(ng) | AMOUNT<br>RECOVERED<br>(ng) | %REC # | QC<br>LIMITS |
|----------------------------|-------------------------|-----------------------------|--------|--------------|
| Phenol                     | 40000                   | 34000                       | 85     | 40-120       |
| bis(2-Chloroethyl) ether   | 20000                   | 17000                       | 85     | 50-110       |
| 2-Chlorophenol             | 40000                   | 36000                       | 90     | 50-110       |
| N-Nitroso-di-n-propylamine | 20000                   | 18000                       | 90     | 30-110       |
| Hexachloroethane           | 20000                   | 10000                       | 50     | 20-110       |
| Isophorone                 | 20000                   | 13000                       | 65     | 50-110       |
| Naphthalene                | 20000                   | 17000                       | 85     | 30-110       |
| 4-Chloroaniline            | 40000                   | 30000                       | 75     | 10-120       |
| 2,4,6-Trichlorophenol      | 40000                   | 38000                       | 95     | 40-120       |
| 2,4-Dinitrotoluene         | 20000                   | 13000                       | 65     | 30-120       |
| Diethylphthalate           | 20000                   | 14000                       | 70     | 50-120       |
| N-Nitrosodiphenylamine     | 20000                   | 12000                       | 60     | 30-110       |
| Hexachlorobenzene          | 20000                   | 15000                       | 75     | 40-120       |
| Benzo(a)pyrene             | 20000                   | 17000                       | 85     | 50-120       |

# Column to be used to flag LCS recovery with an asterisk.

\* Values outside of QC limits.

LCS Recovery: 0 outside limits out of 14 total.

COMMENTS: \_\_\_\_\_

4LCS  
LOW CONC. WATER SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLK37

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: EDCF6

Lab Sample ID: SVOB710

Date Extracted: 05/01/00

Lab File ID: H0991

Date Analyzed: 05/11/00

Instrument ID: H-HP5973

Time Analyzed: 1214

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND LCS:

|    | EPA<br>SAMPLE NO. | LAB<br>SAMPLE ID | LAB<br>FILE ID | DATE<br>ANALYZED |
|----|-------------------|------------------|----------------|------------------|
|    | =====             | =====            | =====          | =====            |
| 01 | SLCS69            | SVOL601          | H0992          | 05/11/00         |
| 02 | EDPM3             | 6033.002         | H0993          | 05/11/00         |
| 03 | EDPM6             | 6033.003         | H0994          | 05/11/00         |
| 04 | EDPM7             | 6033.004         | H0995          | 05/11/00         |
| 05 | EDPN5             | 6033.006         | H0996          | 05/11/00         |
| 06 | EDPN6             | 6033.007         | H0997          | 05/11/00         |
| 07 | EDPN7             | 6033.008         | H0998          | 05/11/00         |
| 08 | EDCF6             | 6033.009         | H0999          | 05/11/00         |
| 09 | EDCF7             | 6033.010         | H1000          | 05/11/00         |
| 10 | EDCF8             | 6033.011         | H1001          | 05/11/00         |
| 11 | EDCF9             | 6033.013         | H1002          | 05/11/00         |
| 12 | EDPN1             | 6033.014         | H1003          | 05/11/00         |
| 13 | EDPN2             | 6033.015         | H1004          | 05/11/00         |
| 14 | EDPN4             | 6033.017         | H1005          | 05/11/00         |
| 15 | EDPN0             | 6033.018         | H1008          | 05/12/00         |
| 16 | EDCG3             | 6033.019         | H1009          | 05/12/00         |
| 17 | _____             | _____            | _____          | _____            |
| 18 | _____             | _____            | _____          | _____            |
| 19 | _____             | _____            | _____          | _____            |
| 20 | _____             | _____            | _____          | _____            |
| 21 | _____             | _____            | _____          | _____            |
| 22 | _____             | _____            | _____          | _____            |
| 23 | _____             | _____            | _____          | _____            |
| 24 | _____             | _____            | _____          | _____            |
| 25 | _____             | _____            | _____          | _____            |
| 26 | _____             | _____            | _____          | _____            |
| 27 | _____             | _____            | _____          | _____            |
| 28 | _____             | _____            | _____          | _____            |
| 29 | _____             | _____            | _____          | _____            |
| 30 | _____             | _____            | _____          | _____            |

COMMENTS: \_\_\_\_\_  
\_\_\_\_\_

1LCB  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK37

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: EDCF6

Lab Sample ID: SVOB710

Date Received: \_\_\_\_\_

Lab File ID: H0991

Date Extracted: 05/01/00

Sample Volume: 1000 (mL)

Date Analyzed: 05/11/00

Concentrated Extract Volume: 1000 (uL)

Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

| CAS NO.  | COMPOUND                     | CONCENTRATION<br>(ug/L) | Q |
|----------|------------------------------|-------------------------|---|
| 108-95-2 | Phenol                       | 5                       | U |
| 111-44-4 | bis(2-Chloroethyl) ether     | 5                       | U |
| 95-57-8  | 2-Chlorophenol               | 5                       | U |
| 95-48-7  | 2-Methylphenol               | 5                       | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 5                       | U |
| 106-44-5 | 4-Methylphenol               | 5                       | U |
| 621-64-7 | N-Nitroso-di-n-propylamine   | 5                       | U |
| 67-72-1  | Hexachloroethane             | 5                       | U |
| 98-95-3  | Nitrobenzene                 | 5                       | U |
| 78-59-1  | Isophorone                   | 5                       | U |
| 88-75-5  | 2-Nitrophenol                | 5                       | U |
| 105-67-9 | 2,4-Dimethylphenol           | 5                       | U |
| 111-91-1 | bis(2-Chloroethoxy)methane   | 5                       | U |
| 120-83-2 | 2,4-Dichlorophenol           | 5                       | U |
| 91-20-3  | Naphthalene                  | 5                       | U |
| 106-47-8 | 4-Chloroaniline              | 5                       | U |
| 87-68-3  | Hexachlorobutadiene          | 5                       | U |
| 59-50-7  | 4-Chloro-3-methylphenol      | 5                       | U |
| 91-57-6  | 2-Methylnaphthalene          | 5                       | U |
| 77-47-4  | Hexachlorocyclopentadiene    | 5                       | U |
| 88-06-2  | 2,4,6-Trichlorophenol        | 5                       | U |
| 95-95-4  | 2,4,5-Trichlorophenol        | 20                      | U |
| 91-58-7  | 2-Chloronaphthalene          | 5                       | U |
| 88-74-4  | 2-Nitroaniline               | 20                      | U |
| 131-11-3 | Dimethylphthalate            | 5                       | U |
| 208-96-8 | Acenaphthylene               | 5                       | U |
| 606-20-2 | 2,6-Dinitrotoluene           | 5                       | U |
| 99-09-2  | 3-Nitroaniline               | 20                      | U |
| 83-32-9  | Acenaphthene                 | 5                       | U |

1LCC  
LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK37

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004

Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: EDCF6

Lab Sample ID: SVOB710      Date Received: \_\_\_\_\_

Lab File ID: H0991      Date Extracted: 05/01/00

Sample Volume: 1000 (mL)      Date Analyzed: 05/11/00

Concentrated Extract Volume: 1000 (uL)      Dilution Factor: 1.0

Injection Volume: 1 (uL)

| CAS NO.   | COMPOUND                   | CONCENTRATION<br>(ug/L) | Q |
|-----------|----------------------------|-------------------------|---|
| 51-28-5   | 2,4-Dinitrophenol          | 20                      | U |
| 100-02-7  | 4-Nitrophenol              | 20                      | U |
| 132-64-9  | Dibenzofuran               | 5                       | U |
| 121-14-2  | 2,4-Dinitrotoluene         | 5                       | U |
| 84-66-2   | Diethylphthalate           | 5                       | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 5                       | U |
| 86-73-7   | Fluorene                   | 5                       | U |
| 100-01-6  | 4-Nitroaniline             | 20                      | U |
| 534-52-1  | 4,6-Dinitro-2-methylphenol | 20                      | U |
| 86-30-6   | N-Nitrosodiphenylamine (1) | 5                       | U |
| 101-55-3  | 4-Bromophenyl-phenylether  | 5                       | U |
| 118-74-1  | Hexachlorobenzene          | 5                       | U |
| 87-86-5   | Pentachlorophenol          | 20                      | U |
| 85-01-8   | Phenanthrene               | 5                       | U |
| 120-12-7  | Anthracene                 | 5                       | U |
| 84-74-2   | Di-n-butylphthalate        | 5                       | U |
| 206-44-0  | Fluoranthene               | 5                       | U |
| 129-00-0  | Pyrene                     | 5                       | U |
| 85-68-7   | Butylbenzylphthalate       | 5                       | U |
| 91-94-1   | 3,3'-Dichlorobenzidine     | 5                       | U |
| 56-55-3   | Benzo(a)anthracene         | 5                       | U |
| 218-01-9  | Chrysene                   | 5                       | U |
| 117-81-7  | bis(2-Ethylhexyl)phthalate | 5                       | U |
| 117-84-0  | Di-n-octylphthalate        | 5                       | U |
| 205-99-2  | Benzo(b)fluoranthene       | 5                       | U |
| 207-08-9  | Benzo(k)fluoranthene       | 5                       | U |
| 50-32-8   | Benzo(a)pyrene             | 5                       | U |
| 193-39-5  | Indeno(1,2,3-cd)Pyrene     | 5                       | U |
| 53-70-3   | Dibenz(a,h)anthracene      | 5                       | U |
| 191-24-2  | Benzo(g,h,i)perylene       | 5                       | U |

(1) - Cannot be separated from Diphenylamine

1LCSF  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SBLK37

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: EDCF6

Lab Sample ID: SVOB710

Date Received: \_\_\_\_\_

Lab File ID: H0991

Date Extracted: 05/01/00

Sample Volume: 1000 (mL)

Date Analyzed: 05/11/00

Concentrated Extract Volume: 1000 (uL)

Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

Number TICs found: 0

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC.<br>(ug/L) | Q |
|------------|---------------|----|----------------------|---|
| 1.         |               |    |                      |   |
| 2.         |               |    |                      |   |
| 3.         |               |    |                      |   |
| 4.         |               |    |                      |   |
| 5.         |               |    |                      |   |
| 6.         |               |    |                      |   |
| 7.         |               |    |                      |   |
| 8.         |               |    |                      |   |
| 9.         |               |    |                      |   |
| 10.        |               |    |                      |   |
| 11.        |               |    |                      |   |
| 12.        |               |    |                      |   |
| 13.        |               |    |                      |   |
| 14.        |               |    |                      |   |
| 15.        |               |    |                      |   |
| 16.        |               |    |                      |   |
| 17.        |               |    |                      |   |
| 18.        |               |    |                      |   |
| 19.        |               |    |                      |   |
| 20.        |               |    |                      |   |
| 21.        |               |    |                      |   |
| 22.        |               |    |                      |   |
| 23.        |               |    |                      |   |
| 24.        |               |    |                      |   |
| 25.        |               |    |                      |   |
| 26.        |               |    |                      |   |
| 27.        |               |    |                      |   |
| 28.        |               |    |                      |   |
| 29.        |               |    |                      |   |
| 30.        |               |    |                      |   |

1LCB  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDCF6

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: EDCF6

Lab Sample ID: 6033.009

Date Received: 04/27/00

Lab File ID: H0999

Date Extracted: 05/01/00

Sample Volume: 1000 (mL)

Date Analyzed: 05/11/00

Concentrated Extract Volume: 1000 (uL)

Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

| CAS NO.  | COMPOUND                     | CONCENTRATION<br>(ug/L) | Q |
|----------|------------------------------|-------------------------|---|
| 108-95-2 | Phenol                       | 5                       | U |
| 111-44-4 | bis(2-Chloroethyl) ether     | 5                       | U |
| 95-57-8  | 2-Chlorophenol               | 5                       | U |
| 95-48-7  | 2-Methylphenol               | 5                       | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 5                       | U |
| 106-44-5 | 4-Methylphenol               | 5                       | U |
| 621-64-7 | N-Nitroso-di-n-propylamine   | 5                       | U |
| 67-72-1  | Hexachloroethane             | 5                       | U |
| 98-95-3  | Nitrobenzene                 | 5                       | U |
| 78-59-1  | Isophorone                   | 5                       | U |
| 88-75-5  | 2-Nitrophenol                | 5                       | U |
| 105-67-9 | 2,4-Dimethylphenol           | 5                       | U |
| 111-91-1 | bis(2-Chloroethoxy)methane   | 5                       | U |
| 120-83-2 | 2,4-Dichlorophenol           | 5                       | U |
| 91-20-3  | Naphthalene                  | 5                       | U |
| 106-47-8 | 4-Chloroaniline              | 5                       | U |
| 87-68-3  | Hexachlorobutadiene          | 5                       | U |
| 59-50-7  | 4-Chloro-3-methylphenol      | 5                       | U |
| 91-57-6  | 2-Methylnaphthalene          | 5                       | U |
| 77-47-4  | Hexachlorocyclopentadiene    | 5                       | U |
| 88-06-2  | 2,4,6-Trichlorophenol        | 5                       | U |
| 95-95-4  | 2,4,5-Trichlorophenol        | 20                      | U |
| 91-58-7  | 2-Chloronaphthalane          | 5                       | U |
| 88-74-4  | 2-Nitroaniline               | 20                      | U |
| 131-11-3 | Dimethylphthalate            | 5                       | U |
| 208-96-8 | Acenaphthylene               | 5                       | U |
| 606-20-2 | 2,6-Dinitrotoluene           | 5                       | U |
| 99-09-2  | 3-Nitroaniline               | 20                      | U |
| 83-32-9  | Acenaphthene                 | 5                       | U |

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

ILCC

EPA SAMPLE NO.

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

EDCF6

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: EDCF6

Lab Sample ID: 6033.009

Date Received: 04/27/00

Lab File ID: H0999

Date Extracted: 05/01/00

Sample Volume: 1000 (mL)

Date Analyzed: 05/11/00

Concentrated Extract Volume: 1000 (uL)

Dilution Factor: 1.0

Injection Volume: 1 (uL)

| CAS NO.   | COMPOUND                   | CONCENTRATION<br>(ug/L) | Q |
|-----------|----------------------------|-------------------------|---|
| 51-28-5   | 2,4-Dinitrophenol          | 20                      | U |
| 100-02-7  | 4-Nitrophenol              | 20                      | U |
| 132-64-9  | Dibenzofuran               | 5                       | U |
| 121-14-2  | 2,4-Dinitrotoluene         | 5                       | U |
| 84-66-2   | Diethylphthalate           | 5                       | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 5                       | U |
| 86-73-7   | Fluorene                   | 5                       | U |
| 100-01-6  | 4-Nitroaniline             | 20                      | U |
| 534-52-1  | 4,6-Dinitro-2-methylphenol | 20                      | U |
| 86-30-6   | N-Nitrosodiphenylamine (1) | 5                       | U |
| 101-55-3  | 4-Bromophenyl-phenylether  | 5                       | U |
| 118-74-1  | Hexachlorobenzene          | 5                       | U |
| 87-86-5   | Pentachlorophenol          | 20                      | U |
| 85-01-8   | Phenanthrene               | 5                       | U |
| 120-12-7  | Anthracene                 | 5                       | U |
| 84-74-2   | Di-n-butylphthalate        | 5                       | U |
| 206-44-0  | Fluoranthene               | 5                       | U |
| 129-00-0  | Pyrene                     | 5                       | U |
| 85-68-7   | Butylbenzylphthalate       | 5                       | U |
| 91-94-1   | 3,3'-Dichlorobenzidine     | 5                       | U |
| 56-55-3   | Benzo(a)anthracene         | 5                       | U |
| 218-01-9  | Chrysene                   | 5                       | U |
| 117-81-7  | bis(2-Ethylhexyl)phthalate | 5                       | U |
| 117-84-0  | Di-n-octylphthalate        | 5                       | U |
| 205-99-2  | Benzo(b)fluoranthene       | 5                       | U |
| 207-08-9  | Benzo(k)fluoranthene       | 5                       | U |
| 50-32-8   | Benzo(a)pyrene             | 5                       | U |
| 193-39-5  | Indeno(1,2,3-cd)Pyrene     | 5                       | U |
| 53-70-3   | Dibenz(a,h)anthracene      | 5                       | U |
| 191-24-2  | Benzo(g,h,i)perylene       | 5                       | U |

(1) - Cannot be separated from Diphenylamine

ILCF  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EDCF6

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004

Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: EDCF6

Lab Sample ID: 6033.009      Date Received: 04/27/00

Lab File ID: H0999      Date Extracted: 05/01/00

Sample Volume: 1000 (mL)      Date Analyzed: 05/11/00

Concentrated Extract Volume: 1000 (uL)      Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

Number TICs found: 0

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC.<br>(ug/L) | Q |
|------------|---------------|----|----------------------|---|
| 1.         |               |    |                      |   |
| 2.         |               |    |                      |   |
| 3.         |               |    |                      |   |
| 4.         |               |    |                      |   |
| 5.         |               |    |                      |   |
| 6.         |               |    |                      |   |
| 7.         |               |    |                      |   |
| 8.         |               |    |                      |   |
| 9.         |               |    |                      |   |
| 10.        |               |    |                      |   |
| 11.        |               |    |                      |   |
| 12.        |               |    |                      |   |
| 13.        |               |    |                      |   |
| 14.        |               |    |                      |   |
| 15.        |               |    |                      |   |
| 16.        |               |    |                      |   |
| 17.        |               |    |                      |   |
| 18.        |               |    |                      |   |
| 19.        |               |    |                      |   |
| 20.        |               |    |                      |   |
| 21.        |               |    |                      |   |
| 22.        |               |    |                      |   |
| 23.        |               |    |                      |   |
| 24.        |               |    |                      |   |
| 25.        |               |    |                      |   |
| 26.        |               |    |                      |   |
| 27.        |               |    |                      |   |
| 28.        |               |    |                      |   |
| 29.        |               |    |                      |   |
| 30.        |               |    |                      |   |

1LCB  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDCF7

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.:

SDG No.: EDCF6

Lab Sample ID: 6033.010

Date Received: 04/27/00

Lab File ID: H1000

Date Extracted: 05/01/00

Sample Volume: 1000 (mL)

Date Analyzed: 05/11/00

Concentrated Extract Volume: 1000 (uL)

Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

| CAS NO.  | COMPOUND                     | CONCENTRATION<br>(ug/L) | Q |
|----------|------------------------------|-------------------------|---|
| 108-95-2 | Phenol                       | 5                       | U |
| 111-44-4 | bis(2-Chloroethyl) ether     | 5                       | U |
| 95-57-8  | 2-Chlorophenol               | 5                       | U |
| 95-48-7  | 2-Methylphenol               | 5                       | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 5                       | U |
| 106-44-5 | 4-Methylphenol               | 5                       | U |
| 621-64-7 | N-Nitroso-di-n-propylamine   | 5                       | U |
| 67-72-1  | Hexachloroethane             | 5                       | U |
| 98-95-3  | Nitrobenzene                 | 5                       | U |
| 78-59-1  | Isophorone                   | 5                       | U |
| 88-75-5  | 2-Nitrophenol                | 5                       | U |
| 105-67-9 | 2,4-Dimethylphenol           | 5                       | U |
| 111-91-1 | bis(2-Chloroethoxy)methane   | 5                       | U |
| 120-83-2 | 2,4-Dichlorophenol           | 5                       | U |
| 91-20-3  | Naphthalene                  | 5                       | U |
| 106-47-8 | 4-Chloroaniline              | 5                       | U |
| 87-68-3  | Hexachlorobutadiene          | 5                       | U |
| 59-50-7  | 4-Chloro-3-methylphenol      | 5                       | U |
| 91-57-6  | 2-Methylnaphthalene          | 5                       | U |
| 77-47-4  | Hexachlorocyclopentadiene    | 5                       | U |
| 88-06-2  | 2,4,6-Trichlorophenol        | 5                       | U |
| 95-95-4  | 2,4,5-Trichlorophenol        | 20                      | U |
| 91-58-7  | 2-Chloronaphthalane          | 5                       | U |
| 88-74-4  | 2-Nitroaniline               | 20                      | U |
| 131-11-3 | Dimethylphthalate            | 5                       | U |
| 208-96-8 | Acenaphthylene               | 5                       | U |
| 606-20-2 | 2,6-Dinitrotoluene           | 5                       | U |
| 99-09-2  | 3-Nitroaniline               | 20                      | U |
| 83-32-9  | Acenaphthene                 | 5                       | U |

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

1100

EPA SAMPLE NO.

EDCF7

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: EDCF6

Lab Sample ID: 6033.010

Date Received: 04/27/00

Lab File ID: H1000

Date Extracted: 05/01/00

Sample Volume: 1000 (mL)

Date Analyzed: 05/11/00

Concentrated Extract Volume: 1000 (uL)

Dilution Factor: 1.0

Injection Volume: 1 (uL)

| CAS NO.   | COMPOUND                   | CONCENTRATION (ug/L) | Q |
|-----------|----------------------------|----------------------|---|
| 51-28-5   | 2,4-Dinitrophenol          | 20                   | U |
| 100-02-7  | 4-Nitrophenol              | 20                   | U |
| 132-64-9  | Dibenzofuran               | 5                    | U |
| 121-14-2  | 2,4-Dinitrotoluene         | 5                    | U |
| 84-66-2   | Diethylphthalate           | 5                    | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 5                    | U |
| 86-73-7   | Fluorene                   | 5                    | U |
| 100-01-6  | 4-Nitroaniline             | 20                   | U |
| 534-52-1  | 4,6-Dinitro-2-methylphenol | 20                   | U |
| 86-30-6   | N-Nitrosodiphenylamine (1) | 5                    | U |
| 101-55-3  | 4-Bromophenyl-phenylether  | 5                    | U |
| 118-74-1  | Hexachlorobenzene          | 5                    | U |
| 87-86-5   | Pentachlorophenol          | 20                   | U |
| 85-01-8   | Phenanthrene               | 5                    | U |
| 120-12-7  | Anthracene                 | 5                    | U |
| 84-74-2   | Di-n-butylphthalate        | 5                    | U |
| 206-44-0  | Fluoranthene               | 5                    | U |
| 129-00-0  | Pyrene                     | 5                    | U |
| 85-68-7   | Butylbenzylphthalate       | 5                    | U |
| 91-94-1   | 3,3'-Dichlorobenzidine     | 5                    | U |
| 56-55-3   | Benzo(a)anthracene         | 5                    | U |
| 218-01-9  | Chrysene                   | 5                    | U |
| 117-81-7  | bis(2-Ethylhexyl)phthalate | 5                    | U |
| 117-84-0  | Di-n-octylphthalate        | 5                    | U |
| 205-99-2  | Benzo(b)fluoranthene       | 5                    | U |
| 207-08-9  | Benzo(k)fluoranthene       | 5                    | U |
| 50-32-8   | Benzo(a)pyrene             | 5                    | U |
| 193-39-5  | Indeno(1,2,3-cd)Pyrene     | 5                    | U |
| 53-70-3   | Dibenz(a,h)anthracene      | 5                    | U |
| 191-24-2  | Benzo(g,h,i)perylene       | 5                    | U |

(1) - Cannot be separated from Diphenylamine

1LCC  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDCF8

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: EDCF6

Lab Sample ID: 6033.011

Date Received: 04/27/00

Lab File ID: H1001

Date Extracted: 05/01/00

Sample Volume: 1000 (mL)

Date Analyzed: 05/11/00

Concentrated Extract Volume: 1000 (uL)

Dilution Factor: 1.0

Injection Volume: 1 (uL)

| CAS NO.   | COMPOUND                   | CONCENTRATION<br>(ug/L) | Q |
|-----------|----------------------------|-------------------------|---|
| 51-28-5   | 2,4-Dinitrophenol          | 20                      | U |
| 100-02-7  | 4-Nitrophenol              | 20                      | U |
| 132-64-9  | Dibenzofuran               | 5                       | U |
| 121-14-2  | 2,4-Dinitrotoluene         | 5                       | U |
| 84-66-2   | Diethylphthalate           | 5                       | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 5                       | U |
| 86-73-7   | Fluorene                   | 5                       | U |
| 100-01-6  | 4-Nitroaniline             | 20                      | U |
| 534-52-1  | 4,6-Dinitro-2-methylphenol | 20                      | U |
| 86-30-6   | N-Nitrosodiphenylamine (1) | 5                       | U |
| 101-55-3  | 4-Bromophenyl-phenylether  | 5                       | U |
| 118-74-1  | Hexachlorobenzene          | 5                       | U |
| 87-86-5   | Pentachlorophenol          | 20                      | U |
| 85-01-8   | Phenanthrene               | 5                       | U |
| 120-12-7  | Anthracene                 | 5                       | U |
| 84-74-2   | Di-n-butylphthalate        | 5                       | U |
| 206-44-0  | Fluoranthene               | 5                       | U |
| 129-00-0  | Pyrene                     | 5                       | U |
| 85-68-7   | Butylbenzylphthalate       | 5                       | U |
| 91-94-1   | 3,3'-Dichlorobenzidine     | 5                       | U |
| 56-55-3   | Benzo(a)anthracene         | 5                       | U |
| 218-01-9  | Chrysene                   | 5                       | U |
| 117-81-7  | bis(2-Ethylhexyl)phthalate | 5                       | U |
| 117-84-0  | Di-n-octylphthalate        | 5                       | U |
| 205-99-2  | Benzo(b)fluoranthene       | 5                       | U |
| 207-08-9  | Benzo(k)fluoranthene       | 5                       | U |
| 50-32-8   | Benzo(a)pyrene             | 5                       | U |
| 193-39-5  | Indeno(1,2,3-cd)Pyrene     | 5                       | U |
| 53-70-3   | Dibenz(a,h)anthracene      | 5                       | U |
| 191-24-2  | Benzo(g,h,i)perylene       | 5                       | U |

(1) - Cannot be separated from Diphenylamine

1LCF  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EDCF8

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004

Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: EDCF6

Lab Sample ID: 6033.011      Date Received: 04/27/00

Lab File ID: H1001      Date Extracted: 05/01/00

Sample Volume: 1000 (mL)      Date Analyzed: 05/11/00

Concentrated Extract Volume: 1000 (uL)      Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

Number TICs found: 0

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC.<br>(ug/L) | Q |
|------------|---------------|----|----------------------|---|
| 1.         |               |    |                      |   |
| 2.         |               |    |                      |   |
| 3.         |               |    |                      |   |
| 4.         |               |    |                      |   |
| 5.         |               |    |                      |   |
| 6.         |               |    |                      |   |
| 7.         |               |    |                      |   |
| 8.         |               |    |                      |   |
| 9.         |               |    |                      |   |
| 10.        |               |    |                      |   |
| 11.        |               |    |                      |   |
| 12.        |               |    |                      |   |
| 13.        |               |    |                      |   |
| 14.        |               |    |                      |   |
| 15.        |               |    |                      |   |
| 16.        |               |    |                      |   |
| 17.        |               |    |                      |   |
| 18.        |               |    |                      |   |
| 19.        |               |    |                      |   |
| 20.        |               |    |                      |   |
| 21.        |               |    |                      |   |
| 22.        |               |    |                      |   |
| 23.        |               |    |                      |   |
| 24.        |               |    |                      |   |
| 25.        |               |    |                      |   |
| 26.        |               |    |                      |   |
| 27.        |               |    |                      |   |
| 28.        |               |    |                      |   |
| 29.        |               |    |                      |   |
| 30.        |               |    |                      |   |

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

ILCB

EPA SAMPLE NO.

EDCF9

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: EDCF6

Lab Sample ID: 6033.013

Date Received: 04/27/00

Lab File ID: H1002

Date Extracted: 05/01/00

Sample Volume: 1000 (mL)

Date Analyzed: 05/11/00

Concentrated Extract Volume: 1000 (uL)

Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

| CAS NO.  | COMPOUND                     | CONCENTRATION<br>(ug/L) | Q |
|----------|------------------------------|-------------------------|---|
| 108-95-2 | Phenol                       | 5                       | U |
| 111-44-4 | bis(2-Chloroethyl) ether     | 5                       | U |
| 95-57-8  | 2-Chlorophenol               | 5                       | U |
| 95-48-7  | 2-Methylphenol               | 5                       | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 5                       | U |
| 106-44-5 | 4-Methylphenol               | 5                       | U |
| 621-64-7 | N-Nitroso-di-n-propylamine   | 5                       | U |
| 67-72-1  | Hexachloroethane             | 5                       | U |
| 98-95-3  | Nitrobenzene                 | 5                       | U |
| 78-59-1  | Isophorone                   | 5                       | U |
| 88-75-5  | 2-Nitrophenol                | 5                       | U |
| 105-67-9 | 2,4-Dimethylphenol           | 5                       | U |
| 111-91-1 | bis(2-Chloroethoxy)methane   | 5                       | U |
| 120-83-2 | 2,4-Dichlorophenol           | 5                       | U |
| 91-20-3  | Naphthalene                  | 5                       | U |
| 106-47-8 | 4-Chloroaniline              | 5                       | U |
| 87-68-3  | Hexachlorobutadiene          | 5                       | U |
| 59-50-7  | 4-Chloro-3-methylphenol      | 5                       | U |
| 91-57-6  | 2-Methylnaphthalene          | 5                       | U |
| 77-47-4  | Hexachlorocyclopentadiene    | 5                       | U |
| 88-06-2  | 2,4,6-Trichlorophenol        | 5                       | U |
| 95-95-4  | 2,4,5-Trichlorophenol        | 20                      | U |
| 91-58-7  | 2-Chloronaphthalene          | 5                       | U |
| 88-74-4  | 2-Nitroaniline               | 20                      | U |
| 131-11-3 | Dimethylphthalate            | 5                       | U |
| 208-96-8 | Acenaphthylene               | 5                       | U |
| 606-20-2 | 2,6-Dinitrotoluene           | 5                       | U |
| 99-09-2  | 3-Nitroaniline               | 20                      | U |
| 83-32-9  | Acenaphthene                 | 5                       | U |

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

1100

EPA SAMPLE NO.

EDCF9

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: EDCF6

Lab Sample ID: 6033.013

Date Received: 04/27/00

Lab File ID: H1002

Date Extracted: 05/01/00

Sample Volume: 1000 (mL)

Date Analyzed: 05/11/00

Concentrated Extract Volume: 1000 (uL)

Dilution Factor: 1.0

Injection Volume: 1 (uL)

| CAS NO.   | COMPOUND                   | CONCENTRATION (ug/L) | Q |
|-----------|----------------------------|----------------------|---|
| 51-28-5   | 2,4-Dinitrophenol          | 20                   | U |
| 100-02-7  | 4-Nitrophenol              | 20                   | U |
| 132-64-9  | Dibenzofuran               | 5                    | U |
| 121-14-2  | 2,4-Dinitrotoluene         | 5                    | U |
| 84-66-2   | Diethylphthalate           | 5                    | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 5                    | U |
| 86-73-7   | Fluorene                   | 5                    | U |
| 100-01-6  | 4-Nitroaniline             | 20                   | U |
| 534-52-1  | 4,6-Dinitro-2-methylphenol | 20                   | U |
| 86-30-6   | N-Nitrosodiphenylamine (1) | 5                    | U |
| 101-55-3  | 4-Bromophenyl-phenylether  | 5                    | U |
| 118-74-1  | Hexachlorobenzene          | 5                    | U |
| 87-86-5   | Pentachlorophenol          | 20                   | U |
| 85-01-8   | Phenanthrene               | 5                    | U |
| 120-12-7  | Anthracene                 | 5                    | U |
| 84-74-2   | Di-n-butylphthalate        | 5                    | U |
| 206-44-0  | Fluoranthene               | 5                    | U |
| 129-00-0  | Pyrene                     | 5                    | U |
| 85-68-7   | Butylbenzylphthalate       | 5                    | U |
| 91-94-1   | 3,3'-Dichlorobenzidine     | 5                    | U |
| 56-55-3   | Benzo(a)anthracene         | 5                    | U |
| 218-01-9  | Chrysene                   | 5                    | U |
| 117-81-7  | bis(2-Ethylhexyl)phthalate | 4                    | J |
| 117-84-0  | Di-n-octylphthalate        | 5                    | U |
| 205-99-2  | Benzo(b)fluoranthene       | 5                    | U |
| 207-08-9  | Benzo(k)fluoranthene       | 5                    | U |
| 50-32-8   | Benzo(a)pyrene             | 5                    | U |
| 193-39-5  | Indeno(1,2,3-cd)Pyrene     | 5                    | U |
| 53-70-3   | Dibenz(a,h)anthracene      | 5                    | U |
| 191-24-2  | Benzo(g,h,i)perylene       | 5                    | U |

(1) - Cannot be separated from Diphenylamine

1LCF  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EDCF9

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004

Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: EDCF6

Lab Sample ID: 6033.013      Date Received: 04/27/00

Lab File ID: H1002      Date Extracted: 05/01/00

Sample Volume: 1000 (mL)      Date Analyzed: 05/11/00

Concentrated Extract Volume: 1000 (uL)      Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

Number TICs found: 0

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC.<br>(ug/L) | Q |
|------------|---------------|----|----------------------|---|
| 1.         |               |    |                      |   |
| 2.         |               |    |                      |   |
| 3.         |               |    |                      |   |
| 4.         |               |    |                      |   |
| 5.         |               |    |                      |   |
| 6.         |               |    |                      |   |
| 7.         |               |    |                      |   |
| 8.         |               |    |                      |   |
| 9.         |               |    |                      |   |
| 10.        |               |    |                      |   |
| 11.        |               |    |                      |   |
| 12.        |               |    |                      |   |
| 13.        |               |    |                      |   |
| 14.        |               |    |                      |   |
| 15.        |               |    |                      |   |
| 16.        |               |    |                      |   |
| 17.        |               |    |                      |   |
| 18.        |               |    |                      |   |
| 19.        |               |    |                      |   |
| 20.        |               |    |                      |   |
| 21.        |               |    |                      |   |
| 22.        |               |    |                      |   |
| 23.        |               |    |                      |   |
| 24.        |               |    |                      |   |
| 25.        |               |    |                      |   |
| 26.        |               |    |                      |   |
| 27.        |               |    |                      |   |
| 28.        |               |    |                      |   |
| 29.        |               |    |                      |   |
| 30.        |               |    |                      |   |

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EDCG3 ✓

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

Lab Code: PDP Case No.: 27986 SAS No.: \_\_\_\_\_ SDG No.: EDCF6

WTB1

Lab Sample ID: 6033.019 Date Received: 04/27/00

Lab File ID: H1009 Date Extracted: 05/01/00

Sample Volume: 1000 (mL) Date Analyzed: 05/12/00

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

| CAS NO.  | COMPOUND                     | CONCENTRATION (ug/L) | Q |
|----------|------------------------------|----------------------|---|
| 108-95-2 | Phenol                       | 5                    | U |
| 111-44-4 | bis(2-Chloroethyl) ether     | 5                    | U |
| 95-57-8  | 2-Chlorophenol               | 5                    | U |
| 95-48-7  | 2-Methylphenol               | 5                    | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 5                    | U |
| 106-44-5 | 4-Methylphenol               | 5                    | U |
| 621-64-7 | N-Nitroso-di-n-propylamine   | 5                    | U |
| 67-72-1  | Hexachloroethane             | 5                    | U |
| 98-95-3  | Nitrobenzene                 | 5                    | U |
| 78-59-1  | Isophorone                   | 5                    | U |
| 88-75-5  | 2-Nitrophenol                | 5                    | U |
| 105-67-9 | 2,4-Dimethylphenol           | 5                    | U |
| 111-91-1 | bis(2-Chloroethoxy)methane   | 5                    | U |
| 120-83-2 | 2,4-Dichlorophenol           | 5                    | U |
| 91-20-3  | Naphthalene                  | 5                    | U |
| 106-47-8 | 4-Chloroaniline              | 5                    | U |
| 87-68-3  | Hexachlorobutadiene          | 5                    | U |
| 59-50-7  | 4-Chloro-3-methylphenol      | 5                    | U |
| 91-57-6  | 2-Methylnaphthalene          | 5                    | U |
| 77-47-4  | Hexachlorocyclopentadiene    | 5                    | U |
| 88-06-2  | 2,4,6-Trichlorophenol        | 5                    | U |
| 95-95-4  | 2,4,5-Trichlorophenol        | 20                   | U |
| 91-58-7  | 2-Chloronaphthalene          | 5                    | U |
| 88-74-4  | 2-Nitroaniline               | 20                   | U |
| 131-11-3 | Dimethylphthalate            | 5                    | U |
| 208-96-8 | Acenaphthylene               | 5                    | U |
| 606-20-2 | 2,6-Dinitrotoluene           | 5                    | U |
| 99-09-2  | 3-Nitroaniline               | 20                   | U |
| 83-32-9  | Acenaphthene                 | 5                    | U |

LLCC  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDCG3

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: EDCF6

Lab Sample ID: 6033.019

Date Received: 04/27/00

Lab File ID: H1009

Date Extracted: 05/01/00

Sample Volume: 1000 (mL)

Date Analyzed: 05/12/00

Concentrated Extract Volume: 1000 (uL)

Dilution Factor: 1.0

Injection Volume: 1 (uL)

| CAS NO.   | COMPOUND                   | CONCENTRATION<br>(ug/L) | Q |
|-----------|----------------------------|-------------------------|---|
| 51-28-5   | 2,4-Dinitrophenol          | 20                      | U |
| 100-02-7  | 4-Nitrophenol              | 20                      | U |
| 132-64-9  | Dibenzofuran               | 5                       | U |
| 121-14-2  | 2,4-Dinitrotoluene         | 5                       | U |
| 84-66-2   | Diethylphthalate           | 5                       | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 5                       | U |
| 86-73-7   | Fluorene                   | 5                       | U |
| 100-01-6  | 4-Nitroaniline             | 20                      | U |
| 534-52-1  | 4,6-Dinitro-2-methylphenol | 20                      | U |
| 86-30-6   | N-Nitrosodiphenylamine (1) | 5                       | U |
| 101-55-3  | 4-Bromophenyl-phenylether  | 5                       | U |
| 118-74-1  | Hexachlorobenzene          | 5                       | U |
| 87-86-5   | Pentachlorophenol          | 20                      | U |
| 85-01-8   | Phenanthrene               | 5                       | U |
| 120-12-7  | Anthracene                 | 5                       | U |
| 84-74-2   | Di-n-butylphthalate        | 5                       | U |
| 206-44-0  | Fluoranthene               | 5                       | U |
| 129-00-0  | Pyrene                     | 5                       | U |
| 85-68-7   | Butylbenzylphthalate       | 5                       | U |
| 91-94-1   | 3,3'-Dichlorobenzidine     | 5                       | U |
| 56-55-3   | Benzo(a)anthracene         | 5                       | U |
| 218-01-9  | Chrysene                   | 5                       | U |
| 117-81-7  | bis(2-Ethylhexyl)phthalate | 5                       | U |
| 117-84-0  | Di-n-octylphthalate        | 5                       | U |
| 205-99-2  | Benzo(b)fluoranthene       | 5                       | U |
| 207-08-9  | Benzo(k)fluoranthene       | 5                       | U |
| 50-32-8   | Benzo(a)pyrene             | 5                       | U |
| 193-39-5  | Indeno(1,2,3-cd)Pyrene     | 5                       | U |
| 53-70-3   | Dibenz(a,h)anthracene      | 5                       | U |
| 191-24-2  | Benzo(g,h,i)perylene       | 5                       | U |

(1) - Cannot be separated from Diphenylamine

11CF  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EDCG3

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004

Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: EDCF6

Lab Sample ID: 6033.019      Date Received: 04/27/00

Lab File ID: H1009      Date Extracted: 05/01/00

Sample Volume: 1000 (mL)      Date Analyzed: 05/12/00

Concentrated Extract Volume: 1000 (uL)      Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

Number TICs found:      0

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC.<br>(ug/L) | Q |
|------------|---------------|----|----------------------|---|
| 1.         |               |    |                      |   |
| 2.         |               |    |                      |   |
| 3.         |               |    |                      |   |
| 4.         |               |    |                      |   |
| 5.         |               |    |                      |   |
| 6.         |               |    |                      |   |
| 7.         |               |    |                      |   |
| 8.         |               |    |                      |   |
| 9.         |               |    |                      |   |
| 10.        |               |    |                      |   |
| 11.        |               |    |                      |   |
| 12.        |               |    |                      |   |
| 13.        |               |    |                      |   |
| 14.        |               |    |                      |   |
| 15.        |               |    |                      |   |
| 16.        |               |    |                      |   |
| 17.        |               |    |                      |   |
| 18.        |               |    |                      |   |
| 19.        |               |    |                      |   |
| 20.        |               |    |                      |   |
| 21.        |               |    |                      |   |
| 22.        |               |    |                      |   |
| 23.        |               |    |                      |   |
| 24.        |               |    |                      |   |
| 25.        |               |    |                      |   |
| 26.        |               |    |                      |   |
| 27.        |               |    |                      |   |
| 28.        |               |    |                      |   |
| 29.        |               |    |                      |   |
| 30.        |               |    |                      |   |

1105  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDPM3

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004  
 Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: EDCF6  
 Lab Sample ID: 6033.002      Date Received: 04/27/00  
 Lab File ID: H0993      Date Extracted: 05/01/00  
 Sample Volume: 1000 (mL)      Date Analyzed: 05/11/00  
 Concentrated Extract Volume: 1000 (uL)      Dilution Factor: 1.0  
 Injection Volume: 1.0 (uL)

| CAS NO.  | COMPOUND                     | CONCENTRATION (ug/L) | Q |
|----------|------------------------------|----------------------|---|
| 108-95-2 | Phenol                       | 5                    | U |
| 111-44-4 | bis(2-Chloroethyl) ether     | 5                    | U |
| 95-57-8  | 2-Chlorophenol               | 5                    | U |
| 95-48-7  | 2-Methylphenol               | 5                    | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 5                    | U |
| 106-44-5 | 4-Methylphenol               | 5                    | U |
| 621-64-7 | N-Nitroso-di-n-propylamine   | 5                    | U |
| 67-72-1  | Hexachloroethane             | 5                    | U |
| 98-95-3  | Nitrobenzene                 | 5                    | U |
| 78-59-1  | Isophorone                   | 5                    | U |
| 88-75-5  | 2-Nitrophenol                | 5                    | U |
| 105-67-9 | 2,4-Dimethylphenol           | 5                    | U |
| 111-91-1 | bis(2-Chloroethoxy)methane   | 5                    | U |
| 120-83-2 | 2,4-Dichlorophenol           | 5                    | U |
| 91-20-3  | Naphthalene                  | 5                    | U |
| 106-47-8 | 4-Chloroaniline              | 5                    | U |
| 87-68-3  | Hexachlorobutadiene          | 5                    | U |
| 59-50-7  | 4-Chloro-3-methylphenol      | 5                    | U |
| 91-57-6  | 2-Methylnaphthalene          | 5                    | U |
| 77-47-4  | Hexachlorocyclopentadiene    | 5                    | U |
| 88-06-2  | 2,4,6-Trichlorophenol        | 5                    | U |
| 95-95-4  | 2,4,5-Trichlorophenol        | 20                   | U |
| 91-58-7  | 2-Chloronaphthalene          | 5                    | U |
| 88-74-4  | 2-Nitroaniline               | 20                   | U |
| 131-11-3 | Dimethylphthalate            | 5                    | U |
| 208-96-8 | Acenaphthylene               | 5                    | U |
| 606-20-2 | 2,6-Dinitrotoluene           | 5                    | U |
| 99-09-2  | 3-Nitroaniline               | 20                   | U |
| 83-32-9  | Acenaphthene                 | 5                    | U |

1LCC  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDPM3

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: EDCF6

Lab Sample ID: 6033.002

Date Received: 04/27/00

Lab File ID: H0993

Date Extracted: 05/01/00

Sample Volume: 1000 (mL)

Date Analyzed: 05/11/00

Concentrated Extract Volume: 1000 (uL)

Dilution Factor: 1.0

Injection Volume: 1 (uL)

| CAS NO.   | COMPOUND                   | CONCENTRATION<br>(ug/L) | Q |
|-----------|----------------------------|-------------------------|---|
| 51-28-5   | 2,4-Dinitrophenol          | 20                      | U |
| 100-02-7  | 4-Nitrophenol              | 20                      | U |
| 132-64-9  | Dibenzofuran               | 5                       | U |
| 121-14-2  | 2,4-Dinitrotoluene         | 5                       | U |
| 84-66-2   | Diethylphthalate           | 5                       | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 5                       | U |
| 86-73-7   | Fluorene                   | 5                       | U |
| 100-01-6  | 4-Nitroaniline             | 20                      | U |
| 534-52-1  | 4,6-Dinitro-2-methylphenol | 20                      | U |
| 86-30-6   | N-Nitrosodiphenylamine (1) | 5                       | U |
| 101-55-3  | 4-Bromophenyl-phenylether  | 5                       | U |
| 118-74-1  | Hexachlorobenzene          | 5                       | U |
| 87-86-5   | Pentachlorophenol          | 20                      | U |
| 85-01-8   | Phenanthrene               | 5                       | U |
| 120-12-7  | Anthracene                 | 5                       | U |
| 84-74-2   | Di-n-butylphthalate        | 5                       | U |
| 206-44-0  | Fluoranthene               | 5                       | U |
| 129-00-0  | Pyrene                     | 5                       | U |
| 85-68-7   | Butylbenzylphthalate       | 5                       | U |
| 91-94-1   | 3,3'-Dichlorobenzidine     | 5                       | U |
| 56-55-3   | Benzo(a)anthracene         | 5                       | U |
| 218-01-9  | Chrysene                   | 5                       | U |
| 117-81-7  | bis(2-Ethylhexyl)phthalate | 5                       | U |
| 117-84-0  | Di-n-octylphthalate        | 5                       | U |
| 205-99-2  | Benzo(b)fluoranthene       | 5                       | U |
| 207-08-9  | Benzo(k)fluoranthene       | 5                       | U |
| 50-32-8   | Benzo(a)pyrene             | 5                       | U |
| 193-39-5  | Indeno(1,2,3-cd)Pyrene     | 5                       | U |
| 53-70-3   | Dibenz(a,h)anthracene      | 5                       | U |
| 191-24-2  | Benzo(g,h,i)perylene       | 5                       | U |

(1) - Cannot be separated from Diphenylamine

11CF  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EDPM3

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004

Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: EDCF6

Lab Sample ID: 6033.002      Date Received: 04/27/00

Lab File ID: H0993      Date Extracted: 05/01/00

Sample Volume: 1000 (mL)      Date Analyzed: 05/11/00

Concentrated Extract Volume: 1000 (uL)      Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

Number TICs found:      0

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC.<br>(ug/L) | Q |
|------------|---------------|----|----------------------|---|
| 1.         |               |    |                      |   |
| 2.         |               |    |                      |   |
| 3.         |               |    |                      |   |
| 4.         |               |    |                      |   |
| 5.         |               |    |                      |   |
| 6.         |               |    |                      |   |
| 7.         |               |    |                      |   |
| 8.         |               |    |                      |   |
| 9.         |               |    |                      |   |
| 10.        |               |    |                      |   |
| 11.        |               |    |                      |   |
| 12.        |               |    |                      |   |
| 13.        |               |    |                      |   |
| 14.        |               |    |                      |   |
| 15.        |               |    |                      |   |
| 16.        |               |    |                      |   |
| 17.        |               |    |                      |   |
| 18.        |               |    |                      |   |
| 19.        |               |    |                      |   |
| 20.        |               |    |                      |   |
| 21.        |               |    |                      |   |
| 22.        |               |    |                      |   |
| 23.        |               |    |                      |   |
| 24.        |               |    |                      |   |
| 25.        |               |    |                      |   |
| 26.        |               |    |                      |   |
| 27.        |               |    |                      |   |
| 28.        |               |    |                      |   |
| 29.        |               |    |                      |   |
| 30.        |               |    |                      |   |

1LCB  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDPM6

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: EDCF6

Lab Sample ID: 6033.003

Date Received: 04/27/00

Lab File ID: H0994

Date Extracted: 05/01/00

Sample Volume: 1000 (mL)

Date Analyzed: 05/11/00

Concentrated Extract Volume: 1000 (uL)

Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

| CAS NO.  | COMPOUND                     | CONCENTRATION<br>(ug/L) | Q |
|----------|------------------------------|-------------------------|---|
| 108-95-2 | Phenol                       | 5                       | U |
| 111-44-4 | bis(2-Chloroethyl) ether     | 5                       | U |
| 95-57-8  | 2-Chlorophenol               | 5                       | U |
| 95-48-7  | 2-Methylphenol               | 5                       | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 5                       | U |
| 106-44-5 | 4-Methylphenol               | 5                       | U |
| 621-64-7 | N-Nitroso-di-n-propylamine   | 5                       | U |
| 67-72-1  | Hexachloroethane             | 5                       | U |
| 98-95-3  | Nitrobenzene                 | 5                       | U |
| 78-59-1  | Isophorone                   | 5                       | U |
| 88-75-5  | 2-Nitrophenol                | 5                       | U |
| 105-67-9 | 2,4-Dimethylphenol           | 5                       | U |
| 111-91-1 | bis(2-Chloroethoxy)methane   | 5                       | U |
| 120-83-2 | 2,4-Dichlorophenol           | 5                       | U |
| 91-20-3  | Naphthalene                  | 5                       | U |
| 106-47-8 | 4-Chloroaniline              | 5                       | U |
| 87-68-3  | Hexachlorobutadiene          | 5                       | U |
| 59-50-7  | 4-Chloro-3-methylphenol      | 5                       | U |
| 91-57-6  | 2-Methylnaphthalene          | 5                       | U |
| 77-47-4  | Hexachlorocyclopentadiene    | 5                       | U |
| 88-06-2  | 2,4,6-Trichlorophenol        | 5                       | U |
| 95-95-4  | 2,4,5-Trichlorophenol        | 20                      | U |
| 91-58-7  | 2-Chloronaphthalene          | 5                       | U |
| 88-74-4  | 2-Nitroaniline               | 20                      | U |
| 131-11-3 | Dimethylphthalate            | 5                       | U |
| 208-96-8 | Acenaphthylene               | 5                       | U |
| 606-20-2 | 2,6-Dinitrotoluene           | 5                       | U |
| 99-09-2  | 3-Nitroaniline               | 20                      | U |
| 83-32-9  | Acenaphthene                 | 5                       | U |

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDPM6 ✓

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

GPE-2

Lab Code: PDP

Case No.: 27986

SAS No.:

SDG No.: EDCF6

Lab Sample ID: 6033.003

Date Received: 04/27/00

Lab File ID: H0994

Date Extracted: 05/01/00

Sample Volume: 1000 (mL)

Date Analyzed: 05/11/00

Concentrated Extract Volume: 1000 (uL)

Dilution Factor: 1.0

Injection Volume: 1 (uL)

| CAS NO.   | COMPOUND                   | CONCENTRATION (ug/L) | Q |
|-----------|----------------------------|----------------------|---|
| 51-28-5   | 2,4-Dinitrophenol          | 20                   | U |
| 100-02-7  | 4-Nitrophenol              | 20                   | U |
| 132-64-9  | Dibenzofuran               | 5                    | U |
| 121-14-2  | 2,4-Dinitrotoluene         | 5                    | U |
| 84-66-2   | Diethylphthalate           | 5                    | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 5                    | U |
| 86-73-7   | Fluorene                   | 5                    | U |
| 100-01-6  | 4-Nitroaniline             | 20                   | U |
| 534-52-1  | 4,6-Dinitro-2-methylphenol | 20                   | U |
| 86-30-6   | N-Nitrosodiphenylamine (1) | 5                    | U |
| 101-55-3  | 4-Bromophenyl-phenylether  | 5                    | U |
| 118-74-1  | Hexachlorobenzene          | 5                    | U |
| 87-86-5   | Pentachlorophenol          | 20                   | U |
| 85-01-8   | Phenanthrene               | 5                    | U |
| 120-12-7  | Anthracene                 | 5                    | U |
| 84-74-2   | Di-n-butylphthalate        | 5                    | U |
| 206-44-0  | Fluoranthene               | 5                    | U |
| 129-00-0  | Pyrene                     | 5                    | U |
| 85-68-7   | Butylbenzylphthalate       | 5                    | U |
| 91-94-1   | 3,3'-Dichlorobenzidine     | 5                    | U |
| 56-55-3   | Benzo(a)anthracene         | 5                    | U |
| 218-01-9  | Chrysene                   | 5                    | U |
| 117-81-7  | bis(2-Ethylhexyl)phthalate | 3                    | J |
| 117-84-0  | Di-n-octylphthalate        | 5                    | U |
| 205-99-2  | Benzo(b)fluoranthene       | 5                    | U |
| 207-08-9  | Benzo(k)fluoranthene       | 5                    | U |
| 50-32-8   | Benzo(a)pyrene             | 5                    | U |
| 193-39-5  | Indeno(1,2,3-cd)Pyrene     | 5                    | U |
| 53-70-3   | Dibenz(a,h)anthracene      | 5                    | U |
| 191-24-2  | Benzo(g,h,i)perylene       | 5                    | U |

(1) - Cannot be separated from Diphenylamine

11CF  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EDPM6

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004

Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: EDCF6

Lab Sample ID: 6033.003      Date Received: 04/27/00

Lab File ID: H0994      Date Extracted: 05/01/00

Sample Volume: 1000 (mL)      Date Analyzed: 05/11/00

Concentrated Extract Volume: 1000 (uL)      Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

Number TICs found: 1

| CAS NUMBER    | COMPOUND NAME | RT    | EST. CONC.<br>(ug/L) | Q  |
|---------------|---------------|-------|----------------------|----|
| 1. 000050-06- | Phenobarbital | 23.12 | 19                   | LN |
| 2.            |               |       |                      |    |
| 3.            |               |       |                      |    |
| 4.            |               |       |                      |    |
| 5.            |               |       |                      |    |
| 6.            |               |       |                      |    |
| 7.            |               |       |                      |    |
| 8.            |               |       |                      |    |
| 9.            |               |       |                      |    |
| 10.           |               |       |                      |    |
| 11.           |               |       |                      |    |
| 12.           |               |       |                      |    |
| 13.           |               |       |                      |    |
| 14.           |               |       |                      |    |
| 15.           |               |       |                      |    |
| 16.           |               |       |                      |    |
| 17.           |               |       |                      |    |
| 18.           |               |       |                      |    |
| 19.           |               |       |                      |    |
| 20.           |               |       |                      |    |
| 21.           |               |       |                      |    |
| 22.           |               |       |                      |    |
| 23.           |               |       |                      |    |
| 24.           |               |       |                      |    |
| 25.           |               |       |                      |    |
| 26.           |               |       |                      |    |
| 27.           |               |       |                      |    |
| 28.           |               |       |                      |    |
| 29.           |               |       |                      |    |
| 30.           |               |       |                      |    |

1LCF  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EDPM6

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004

Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: EDCF6

Lab Sample ID: 6033.003      Date Received: 04/27/00

Lab File ID: H0994      Date Extracted: 05/01/00

Sample Volume: 1000 (mL)      Date Analyzed: 05/11/00

Concentrated Extract Volume: 1000 (uL)      Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

Number TICs found: 1

| CAS NUMBER    | COMPOUND NAME | RT    | EST. CONC.<br>(ug/L) | Q |
|---------------|---------------|-------|----------------------|---|
| 1. 000050-06- | Phenobarbital | 23.12 | 19                   | ✓ |
| 2.            |               |       |                      |   |
| 3.            |               |       |                      |   |
| 4.            |               |       |                      |   |
| 5.            |               |       |                      |   |
| 6.            |               |       |                      |   |
| 7.            |               |       |                      |   |
| 8.            |               |       |                      |   |
| 9.            |               |       |                      |   |
| 10.           |               |       |                      |   |
| 11.           |               |       |                      |   |
| 12.           |               |       |                      |   |
| 13.           |               |       |                      |   |
| 14.           |               |       |                      |   |
| 15.           |               |       |                      |   |
| 16.           |               |       |                      |   |
| 17.           |               |       |                      |   |
| 18.           |               |       |                      |   |
| 19.           |               |       |                      |   |
| 20.           |               |       |                      |   |
| 21.           |               |       |                      |   |
| 22.           |               |       |                      |   |
| 23.           |               |       |                      |   |
| 24.           |               |       |                      |   |
| 25.           |               |       |                      |   |
| 26.           |               |       |                      |   |
| 27.           |               |       |                      |   |
| 28.           |               |       |                      |   |
| 29.           |               |       |                      |   |
| 30.           |               |       |                      |   |

11CB  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDPM7

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: EDCF6

Lab Sample ID: 6033.004

Date Received: 04/27/00

Lab File ID: H0995

Date Extracted: 05/01/00

Sample Volume: 1000 (mL)

Date Analyzed: 05/11/00

Concentrated Extract Volume: 1000 (uL)

Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

| CAS NO.       | COMPOUND                     | CONCENTRATION<br>(ug/L) | Q |
|---------------|------------------------------|-------------------------|---|
| 108-95-2----- | Phenol                       | 5                       |   |
| 111-44-4----- | bis(2-Chloroethyl) ether     | 5                       | U |
| 95-57-8-----  | 2-Chlorophenol               | 5                       | U |
| 95-48-7-----  | 2-Methylphenol               | 5                       | U |
| 108-60-1----- | 2,2'-oxybis(1-Chloropropane) | 5                       | U |
| 106-44-5----- | 4-Methylphenol               | 5                       | U |
| 621-64-7----- | N-Nitroso-di-n-propylamine   | 5                       | U |
| 67-72-1-----  | Hexachloroethane             | 5                       | U |
| 98-95-3-----  | Nitrobenzene                 | 5                       | U |
| 78-59-1-----  | Isophorone                   | 5                       | U |
| 88-75-5-----  | 2-Nitrophenol                | 5                       | U |
| 105-67-9----- | 2,4-Dimethylphenol           | 5                       | U |
| 111-91-1----- | bis(2-Chloroethoxy) methane  | 5                       | U |
| 120-83-2----- | 2,4-Dichlorophenol           | 5                       | U |
| 91-20-3-----  | Naphthalene                  | 5                       | U |
| 106-47-8----- | 4-Chloroaniline              | 5                       | U |
| 87-68-3-----  | Hexachlorobutadiene          | 5                       | U |
| 59-50-7-----  | 4-Chloro-3-methylphenol      | 5                       | U |
| 91-57-6-----  | 2-Methylnaphthalene          | 5                       | U |
| 77-47-4-----  | Hexachlorocyclopentadiene    | 5                       | U |
| 88-06-2-----  | 2,4,6-Trichlorophenol        | 5                       | U |
| 95-95-4-----  | 2,4,5-Trichlorophenol        | 20                      | U |
| 91-58-7-----  | 2-Chloronaphthalane          | 5                       | U |
| 88-74-4-----  | 2-Nitroaniline               | 20                      | U |
| 131-11-3----- | Dimethylphthalate            | 5                       | U |
| 208-96-8----- | Acenaphthylene               | 5                       | U |
| 606-20-2----- | 2,6-Dinitrotoluene           | 5                       | U |
| 99-09-2-----  | 3-Nitroaniline               | 20                      | U |
| 83-32-9-----  | Acenaphthene                 | 5                       | U |

1LCC  
LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDPM7

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004

Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: EDCF6

Lab Sample ID: 6033.004      Date Received: 04/27/00

Lab File ID: H0995      Date Extracted: 05/01/00

Sample Volume: 1000 (mL)      Date Analyzed: 05/11/00

Concentrated Extract Volume: 1000 (uL)      Dilution Factor: 1.0

Injection Volume: 1 (uL)

| CAS NO.   | COMPOUND                   | CONCENTRATION<br>(ug/L) | Q |
|-----------|----------------------------|-------------------------|---|
| 51-28-5   | 2,4-Dinitrophenol          | 20                      | U |
| 100-02-7  | 4-Nitrophenol              | 20                      | U |
| 132-64-9  | Dibenzofuran               | 5                       | U |
| 121-14-2  | 2,4-Dinitrotoluene         | 5                       | U |
| 84-66-2   | Diethylphthalate           | 5                       | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 5                       | U |
| 86-73-7   | Fluorene                   | 5                       | U |
| 100-01-6  | 4-Nitroaniline             | 20                      | U |
| 534-52-1  | 4,6-Dinitro-2-methylphenol | 20                      | U |
| 86-30-6   | N-Nitrosodiphenylamine (1) | 5                       | U |
| 101-55-3  | 4-Bromophenyl-phenylether  | 5                       | U |
| 118-74-1  | Hexachlorobenzene          | 5                       | U |
| 87-86-5   | Pentachlorophenol          | 20                      | U |
| 85-01-8   | Phenanthrene               | 5                       | U |
| 120-12-7  | Anthracene                 | 5                       | U |
| 84-74-2   | Di-n-butylphthalate        | 5                       | U |
| 206-44-0  | Fluoranthene               | 5                       | U |
| 129-00-0  | Pyrene                     | 5                       | U |
| 85-68-7   | Butylbenzylphthalate       | 5                       | U |
| 91-94-1   | 3,3'-Dichlorobenzidine     | 5                       | U |
| 56-55-3   | Benzo(a)anthracene         | 5                       | U |
| 218-01-9  | Chrysene                   | 5                       | U |
| 117-81-7  | bis(2-Ethylhexyl)phthalate | 4                       | J |
| 117-84-0  | Di-n-octylphthalate        | 5                       | U |
| 205-99-2  | Benzo(b)fluoranthene       | 5                       | U |
| 207-08-9  | Benzo(k)fluoranthene       | 5                       | U |
| 50-32-8   | Benzo(a)pyrene             | 5                       | U |
| 193-39-5  | Indeno(1,2,3-cd)Pyrene     | 5                       | U |
| 53-70-3   | Dibenz(a,h)anthracene      | 5                       | U |
| 191-24-2  | Benzo(g,h,i)perylene       | 5                       | U |

(1) - Cannot be separated from Diphenylamine

ILCF  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EDPM7

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004

Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: EDCF6

Lab Sample ID: 6033.004      Date Received: 04/27/00

Lab File ID: H0995      Date Extracted: 05/01/00

Sample Volume: 1000 (mL)      Date Analyzed: 05/11/00

Concentrated Extract Volume: 1000 (uL)      Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

Number TICs found:      0

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC.<br>(ug/L) | Q |
|------------|---------------|----|----------------------|---|
| 1.         |               |    |                      |   |
| 2.         |               |    |                      |   |
| 3.         |               |    |                      |   |
| 4.         |               |    |                      |   |
| 5.         |               |    |                      |   |
| 6.         |               |    |                      |   |
| 7.         |               |    |                      |   |
| 8.         |               |    |                      |   |
| 9.         |               |    |                      |   |
| 10.        |               |    |                      |   |
| 11.        |               |    |                      |   |
| 12.        |               |    |                      |   |
| 13.        |               |    |                      |   |
| 14.        |               |    |                      |   |
| 15.        |               |    |                      |   |
| 16.        |               |    |                      |   |
| 17.        |               |    |                      |   |
| 18.        |               |    |                      |   |
| 19.        |               |    |                      |   |
| 20.        |               |    |                      |   |
| 21.        |               |    |                      |   |
| 22.        |               |    |                      |   |
| 23.        |               |    |                      |   |
| 24.        |               |    |                      |   |
| 25.        |               |    |                      |   |
| 26.        |               |    |                      |   |
| 27.        |               |    |                      |   |
| 28.        |               |    |                      |   |
| 29.        |               |    |                      |   |
| 30.        |               |    |                      |   |

11CB  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDPNO

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: EDCF6

Lab Sample ID: 6033.018

Date Received: 04/27/00

Lab File ID: H1008

Date Extracted: 05/01/00

Sample Volume: 1000 (mL)

Date Analyzed: 05/12/00

Concentrated Extract Volume: 1000 (uL)

Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

| CAS NO.       | COMPOUND                     | CONCENTRATION<br>(ug/L) | Q |
|---------------|------------------------------|-------------------------|---|
| 108-95-2----- | Phenol                       | 5                       | U |
| 111-44-4----- | bis(2-Chloroethyl)ether      | 5                       | U |
| 95-57-8-----  | 2-Chlorophenol               | 5                       | U |
| 95-48-7-----  | 2-Methylphenol               | 5                       | U |
| 108-60-1----- | 2,2'-oxybis(1-Chloropropane) | 5                       | U |
| 106-44-5----- | 4-Methylphenol               | 5                       | U |
| 621-64-7----- | N-Nitroso-di-n-propylamine   | 5                       | U |
| 67-72-1-----  | Hexachloroethane             | 5                       | U |
| 98-95-3-----  | Nitrobenzene                 | 5                       | U |
| 78-59-1-----  | Isophorone                   | 5                       | U |
| 88-75-5-----  | 2-Nitrophenol                | 5                       | U |
| 105-67-9----- | 2,4-Dimethylphenol           | 5                       | U |
| 111-91-1----- | bis(2-Chloroethoxy)methane   | 5                       | U |
| 120-83-2----- | 2,4-Dichlorophenol           | 5                       | U |
| 91-20-3-----  | Naphthalene                  | 5                       | U |
| 106-47-8----- | 4-Chloroaniline              | 5                       | U |
| 87-68-3-----  | Hexachlorobutadiene          | 5                       | U |
| 59-50-7-----  | 4-Chloro-3-methylphenol      | 5                       | U |
| 91-57-6-----  | 2-Methylnaphthalene          | 5                       | U |
| 77-47-4-----  | Hexachlorocyclopentadiene    | 5                       | U |
| 88-06-2-----  | 2,4,6-Trichlorophenol        | 5                       | U |
| 95-95-4-----  | 2,4,5-Trichlorophenol        | 20                      | U |
| 91-58-7-----  | 2-Chloronaphthalane          | 5                       | U |
| 88-74-4-----  | 2-Nitroaniline               | 20                      | U |
| 131-11-3----- | Dimethylphthalate            | 5                       | U |
| 208-96-8----- | Acenaphthylene               | 5                       | U |
| 606-20-2----- | 2,6-Dinitrotoluene           | 5                       | U |
| 99-09-2-----  | 3-Nitroaniline               | 20                      | U |
| 83-32-9-----  | Acenaphthene                 | 5                       | U |

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

LLCC

EPA SAMPLE NO.

EDPNO

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: EDCF6

Lab Sample ID: 6033.018

Date Received: 04/27/00

Lab File ID: H1008

Date Extracted: 05/01/00

Sample Volume: 1000 (mL)

Date Analyzed: 05/12/00

Concentrated Extract Volume: 1000 (uL)

Dilution Factor: 1.0

Injection Volume: 1 (uL)

| CAS NO.   | COMPOUND                   | CONCENTRATION<br>(ug/L) | Q |
|-----------|----------------------------|-------------------------|---|
| 51-28-5   | 2,4-Dinitrophenol          | 20                      | U |
| 100-02-7  | 4-Nitrophenol              | 20                      | U |
| 132-64-9  | Dibenzofuran               | 5                       | U |
| 121-14-2  | 2,4-Dinitrotoluene         | 5                       | U |
| 84-66-2   | Diethylphthalate           | 5                       | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 5                       | U |
| 86-73-7   | Fluorene                   | 5                       | U |
| 100-01-6  | 4-Nitroaniline             | 20                      | U |
| 534-52-1  | 4,6-Dinitro-2-methylphenol | 20                      | U |
| 86-30-6   | N-Nitrosodiphenylamine (1) | 5                       | U |
| 101-55-3  | 4-Bromophenyl-phenylether  | 5                       | U |
| 118-74-1  | Hexachlorobenzene          | 5                       | U |
| 87-86-5   | Pentachlorophenol          | 20                      | U |
| 85-01-8   | Phenanthrene               | 5                       | U |
| 120-12-7  | Anthracene                 | 5                       | U |
| 84-74-2   | Di-n-butylphthalate        | 5                       | U |
| 206-44-0  | Fluoranthene               | 5                       | U |
| 129-00-0  | Pyrene                     | 5                       | U |
| 85-68-7   | Butylbenzylphthalate       | 5                       | U |
| 91-94-1   | 3,3'-Dichlorobenzidine     | 5                       | U |
| 56-55-3   | Benzo(a)anthracene         | 5                       | U |
| 218-01-9  | Chrysene                   | 5                       | U |
| 117-81-7  | bis(2-Ethylhexyl)phthalate | 5                       | U |
| 117-84-0  | Di-n-octylphthalate        | 5                       | U |
| 205-99-2  | Benzo(b)fluoranthene       | 5                       | U |
| 207-08-9  | Benzo(k)fluoranthene       | 5                       | U |
| 50-32-8   | Benzo(a)pyrene             | 5                       | U |
| 193-39-5  | Indeno(1,2,3-cd)Pyrene     | 5                       | U |
| 53-70-3   | Dibenz(a,h)anthracene      | 5                       | U |
| 191-24-2  | Benzo(g,h,i)perylene       | 5                       | U |

(1) - Cannot be separated from Diphenylamine

LCSF  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EDPNO

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004

Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: EDCF6

Lab Sample ID: 6033.018      Date Received: 04/27/00

Lab File ID: H1008      Date Extracted: 05/01/00

Sample Volume: 1000 (mL)      Date Analyzed: 05/12/00

Concentrated Extract Volume: 1000 (uL)      Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

Number TICs found:      0

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC.<br>(ug/L) | Q |
|------------|---------------|----|----------------------|---|
| 1.         |               |    |                      |   |
| 2.         |               |    |                      |   |
| 3.         |               |    |                      |   |
| 4.         |               |    |                      |   |
| 5.         |               |    |                      |   |
| 6.         |               |    |                      |   |
| 7.         |               |    |                      |   |
| 8.         |               |    |                      |   |
| 9.         |               |    |                      |   |
| 10.        |               |    |                      |   |
| 11.        |               |    |                      |   |
| 12.        |               |    |                      |   |
| 13.        |               |    |                      |   |
| 14.        |               |    |                      |   |
| 15.        |               |    |                      |   |
| 16.        |               |    |                      |   |
| 17.        |               |    |                      |   |
| 18.        |               |    |                      |   |
| 19.        |               |    |                      |   |
| 20.        |               |    |                      |   |
| 21.        |               |    |                      |   |
| 22.        |               |    |                      |   |
| 23.        |               |    |                      |   |
| 24.        |               |    |                      |   |
| 25.        |               |    |                      |   |
| 26.        |               |    |                      |   |
| 27.        |               |    |                      |   |
| 28.        |               |    |                      |   |
| 29.        |               |    |                      |   |
| 30.        |               |    |                      |   |

1103  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDPN1

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: EDCF6

Lab Sample ID: 6033.014

Date Received: 04/27/00

Lab File ID: H1003

Date Extracted: 05/01/00

Sample Volume: 1000 (mL)

Date Analyzed: 05/11/00

Concentrated Extract Volume: 1000 (uL)

Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

| CAS NO.  | COMPOUND                     | CONCENTRATION<br>(ug/L) | Q |
|----------|------------------------------|-------------------------|---|
| 108-95-2 | Phenol                       | 5                       | U |
| 111-44-4 | bis(2-Chloroethyl) ether     | 5                       | U |
| 95-57-8  | 2-Chlorophenol               | 5                       | U |
| 95-48-7  | 2-Methylphenol               | 5                       | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 5                       | U |
| 106-44-5 | 4-Methylphenol               | 5                       | U |
| 621-64-7 | N-Nitroso-di-n-propylamine   | 5                       | U |
| 67-72-1  | Hexachloroethane             | 5                       | U |
| 98-95-3  | Nitrobenzene                 | 5                       | U |
| 78-59-1  | Isophorone                   | 5                       | U |
| 88-75-5  | 2-Nitrophenol                | 5                       | U |
| 105-67-9 | 2,4-Dimethylphenol           | 5                       | U |
| 111-91-1 | bis(2-Chloroethoxy) methane  | 5                       | U |
| 120-83-2 | 2,4-Dichlorophenol           | 5                       | U |
| 91-20-3  | Naphthalene                  | 5                       | U |
| 106-47-8 | 4-Chloroaniline              | 5                       | U |
| 87-68-3  | Hexachlorobutadiene          | 5                       | U |
| 59-50-7  | 4-Chloro-3-methylphenol      | 5                       | U |
| 91-57-6  | 2-Methylnaphthalene          | 5                       | U |
| 77-47-4  | Hexachlorocyclopentadiene    | 5                       | U |
| 88-06-2  | 2,4,6-Trichlorophenol        | 5                       | U |
| 95-95-4  | 2,4;5-Trichlorophenol        | 20                      | U |
| 91-58-7  | 2-Chloronaphthalene          | 5                       | U |
| 88-74-4  | 2-Nitroaniline               | 20                      | U |
| 131-11-3 | Dimethylphthalate            | 5                       | U |
| 208-96-8 | Acenaphthylene               | 5                       | U |
| 606-20-2 | 2,6-Dinitrotoluene           | 5                       | U |
| 99-09-2  | 3-Nitroaniline               | 20                      | U |
| 83-32-9  | Acenaphthene                 | 5                       | U |

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

OLCC

EPA SAMPLE NO.

EDPN1

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: EDCF6

Lab Sample ID: 6033.014

Date Received: 04/27/00

Lab File ID: H1003

Date Extracted: 05/01/00

Sample Volume: 1000 (mL)

Date Analyzed: 05/11/00

Concentrated Extract Volume: 1000 (uL)

Dilution Factor: 1.0

Injection Volume: 1 (uL)

| CAS NO.   | COMPOUND                   | CONCENTRATION (ug/L) | Q |
|-----------|----------------------------|----------------------|---|
| 51-28-5   | 2,4-Dinitrophenol          | 2                    | U |
| 100-02-7  | 4-Nitrophenol              | 20                   | U |
| 132-64-9  | Dibenzofuran               | 5                    | U |
| 121-14-2  | 2,4-Dinitrotoluene         | 5                    | U |
| 84-66-2   | Diethylphthalate           | 5                    | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 5                    | U |
| 86-73-7   | Fluorene                   | 5                    | U |
| 100-01-6  | 4-Nitroaniline             | 20                   | U |
| 534-52-1  | 4,6-Dinitro-2-methylphenol | 20                   | U |
| 86-30-6   | N-Nitrosodiphenylamine (1) | 5                    | U |
| 101-55-3  | 4-Bromophenyl-phenylether  | 5                    | U |
| 118-74-1  | Hexachlorobenzene          | 5                    | U |
| 87-86-5   | Pentachlorophenol          | 20                   | U |
| 85-01-8   | Phenanthrene               | 5                    | U |
| 120-12-7  | Anthracene                 | 5                    | U |
| 84-74-2   | Di-n-butylphthalate        | 5                    | U |
| 206-44-0  | Fluoranthene               | 5                    | U |
| 129-00-0  | Pyrene                     | 5                    | U |
| 85-68-7   | Butylbenzylphthalate       | 5                    | U |
| 91-94-1   | 3,3'-Dichlorobenzidine     | 5                    | U |
| 56-55-3   | Benzo(a)anthracene         | 5                    | U |
| 218-01-9  | Chrysene                   | 5                    | U |
| 117-81-7  | bis(2-Ethylhexyl)phthalate | 2                    | J |
| 117-84-0  | Di-n-octylphthalate        | 5                    | U |
| 205-99-2  | Benzo(b)fluoranthene       | 5                    | U |
| 207-08-9  | Benzo(k)fluoranthene       | 5                    | U |
| 50-32-8   | Benzo(a)pyrene             | 5                    | U |
| 193-39-5  | Indeno(1,2,3-cd)Pyrene     | 5                    | U |
| 53-70-3   | Dibenz(a,h)anthracene      | 5                    | U |
| 191-24-2  | Benzo(g,h,i)perylene       | 5                    | U |

(1) - Cannot be separated from Diphenylamine

11CF  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EDPN1

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004

Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: EDCF6

Lab Sample ID: 6033.014      Date Received: 04/27/00

Lab File ID: H1003      Date Extracted: 05/01/00

Sample Volume: 1000 (mL)      Date Analyzed: 05/11/00

Concentrated Extract Volume: 1000 (uL)      Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

Number TICs found:      0

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC.<br>(ug/L) | Q |
|------------|---------------|----|----------------------|---|
| 1.         |               |    |                      |   |
| 2.         |               |    |                      |   |
| 3.         |               |    |                      |   |
| 4.         |               |    |                      |   |
| 5.         |               |    |                      |   |
| 6.         |               |    |                      |   |
| 7.         |               |    |                      |   |
| 8.         |               |    |                      |   |
| 9.         |               |    |                      |   |
| 10.        |               |    |                      |   |
| 11.        |               |    |                      |   |
| 12.        |               |    |                      |   |
| 13.        |               |    |                      |   |
| 14.        |               |    |                      |   |
| 15.        |               |    |                      |   |
| 16.        |               |    |                      |   |
| 17.        |               |    |                      |   |
| 18.        |               |    |                      |   |
| 19.        |               |    |                      |   |
| 20.        |               |    |                      |   |
| 21.        |               |    |                      |   |
| 22.        |               |    |                      |   |
| 23.        |               |    |                      |   |
| 24.        |               |    |                      |   |
| 25.        |               |    |                      |   |
| 26.        |               |    |                      |   |
| 27.        |               |    |                      |   |
| 28.        |               |    |                      |   |
| 29.        |               |    |                      |   |
| 30.        |               |    |                      |   |

11CB  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDPN2

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004  
 Lab Code: PDP Case No.: 27986 SAS No.: \_\_\_\_\_ SDG No.: EDCF6  
 Lab Sample ID: 6033.015 Date Received: 04/27/00  
 Lab File ID: H1004 Date Extracted: 05/01/00  
 Sample Volume: 1000 (mL) Date Analyzed: 05/11/00  
 Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0  
 Injection Volume: 1.0 (uL)

| CAS NO.  | COMPOUND                     | CONCENTRATION<br>(ug/L) | Q |
|----------|------------------------------|-------------------------|---|
| 108-95-2 | Phenol                       | 5                       | U |
| 111-44-4 | bis(2-Chloroethyl) ether     | 5                       | U |
| 95-57-8  | 2-Chlorophenol               | 5                       | U |
| 95-48-7  | 2-Methylphenol               | 5                       | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 5                       | U |
| 106-44-5 | 4-Methylphenol               | 5                       | U |
| 621-64-7 | N-Nitroso-di-n-propylamine   | 5                       | U |
| 67-72-1  | Hexachloroethane             | 5                       | U |
| 98-95-3  | Nitrobenzene                 | 5                       | U |
| 78-59-1  | Isophorone                   | 5                       | U |
| 88-75-5  | 2-Nitrophenol                | 5                       | U |
| 105-67-9 | 2,4-Dimethylphenol           | 5                       | U |
| 111-91-1 | bis(2-Chloroethoxy)methane   | 5                       | U |
| 120-83-2 | 2,4-Dichlorophenol           | 5                       | U |
| 91-20-3  | Naphthalene                  | 5                       | U |
| 106-47-8 | 4-Chloroaniline              | 5                       | U |
| 87-68-3  | Hexachlorobutadiene          | 5                       | U |
| 59-50-7  | 4-Chloro-3-methylphenol      | 5                       | U |
| 91-57-6  | 2-Methylnaphthalene          | 5                       | U |
| 77-47-4  | Hexachlorocyclopentadiene    | 5                       | U |
| 88-06-2  | 2,4,6-Trichlorophenol        | 5                       | U |
| 95-95-4  | 2,4,5-Trichlorophenol        | 20                      | U |
| 91-58-7  | 2-Chloronaphthalene          | 5                       | U |
| 88-74-4  | 2-Nitroaniline               | 20                      | U |
| 131-11-3 | Dimethylphthalate            | 5                       | U |
| 208-96-8 | Acenaphthylene               | 5                       | U |
| 606-20-2 | 2,6-Dinitrotoluene           | 5                       | U |
| 99-09-2  | 3-Nitroaniline               | 20                      | U |
| 83-32-9  | Acenaphthene                 | 5                       | U |

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

ILCC

EPA SAMPLE NO.

EDPN2

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: EDCF6

Lab Sample ID: 6033.015

Date Received: 04/27/00

Lab File ID: H1004

Date Extracted: 05/01/00

Sample Volume: 1000 (mL)

Date Analyzed: 05/11/00

Concentrated Extract Volume: 1000 (uL)

Dilution Factor: 1.0

Injection Volume: 1 (uL)

| CAS NO.   | COMPOUND                   | CONCENTRATION (ug/L) | Q |
|-----------|----------------------------|----------------------|---|
| 51-28-5   | 2,4-Dinitrophenol          | 20                   | U |
| 100-02-7  | 4-Nitrophenol              | 20                   | U |
| 132-64-9  | Dibenzofuran               | 5                    | U |
| 121-14-2  | 2,4-Dinitrotoluene         | 5                    | U |
| 84-66-2   | Diethylphthalate           | 5                    | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 5                    | U |
| 86-73-7   | Fluorene                   | 5                    | U |
| 100-01-6  | 4-Nitroaniline             | 20                   | U |
| 534-52-1  | 4,6-Dinitro-2-methylphenol | 20                   | U |
| 86-30-6   | N-Nitrosodiphenylamine (1) | 5                    | U |
| 101-55-3  | 4-Bromophenyl-phenylether  | 5                    | U |
| 118-74-1  | Hexachlorobenzene          | 5                    | U |
| 87-86-5   | Pentachlorophenol          | 20                   | U |
| 85-01-8   | Phenanthrene               | 5                    | U |
| 120-12-7  | Anthracene                 | 5                    | U |
| 84-74-2   | Di-n-butylphthalate        | 5                    | U |
| 206-44-0  | Fluoranthene               | 5                    | U |
| 129-00-0  | Pyrene                     | 5                    | U |
| 85-68-7   | Butylbenzylphthalate       | 5                    | U |
| 91-94-1   | 3,3'-Dichlorobenzidine     | 5                    | U |
| 56-55-3   | Benzo(a)anthracene         | 5                    | U |
| 218-01-9  | Chrysene                   | 5                    | U |
| 117-81-7  | bis(2-Ethylhexyl)phthalate | 5                    | U |
| 117-84-0  | Di-n-octylphthalate        | 5                    | U |
| 205-99-2  | Benzo(b)fluoranthene       | 5                    | U |
| 207-08-9  | Benzo(k)fluoranthene       | 5                    | U |
| 50-32-8   | Benzo(a)pyrene             | 5                    | U |
| 193-39-5  | Indeno(1,2,3-cd)Pyrene     | 5                    | U |
| 53-70-3   | Dibenz(a,h)anthracene      | 5                    | U |
| 191-24-2  | Benzo(g,h,i)perylene       | 5                    | U |

(1) - Cannot be separated from Diphenylamine

11CB  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDPN5

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: EDCF6

Lab Sample ID: 6033.006

Date Received: 04/27/00

Lab File ID: H0996

Date Extracted: 05/01/00

Sample Volume: 1000 (mL)

Date Analyzed: 05/11/00

Concentrated Extract Volume: 1000 (uL)

Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

| CAS NO.  | COMPOUND                     | CONCENTRATION<br>(ug/L) | Q |
|----------|------------------------------|-------------------------|---|
| 108-95-2 | Phenol                       | 5                       | U |
| 111-44-4 | bis(2-Chloroethyl) ether     | 5                       | U |
| 95-57-8  | 2-Chlorophenol               | 5                       | U |
| 95-48-7  | 2-Methylphenol               | 5                       | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 5                       | U |
| 106-44-5 | 4-Methylphenol               | 5                       | U |
| 621-64-7 | N-Nitroso-di-n-propylamine   | 5                       | U |
| 67-72-1  | Hexachloroethane             | 5                       | U |
| 98-95-3  | Nitrobenzene                 | 5                       | U |
| 78-59-1  | Isophorone                   | 5                       | U |
| 88-75-5  | 2-Nitrophenol                | 5                       | U |
| 105-67-9 | 2,4-Dimethylphenol           | 5                       | U |
| 111-91-1 | bis(2-Chloroethoxy)methane   | 5                       | U |
| 120-83-2 | 2,4-Dichlorophenol           | 5                       | U |
| 91-20-3  | Naphthalene                  | 5                       | U |
| 106-47-8 | 4-Chloroaniline              | 5                       | U |
| 87-68-3  | Hexachlorobutadiene          | 5                       | U |
| 59-50-7  | 4-Chloro-3-methylphenol      | 5                       | U |
| 91-57-6  | 2-Methylnaphthalene          | 5                       | U |
| 77-47-4  | Hexachlorocyclopentadiene    | 5                       | U |
| 88-06-2  | 2,4,6-Trichlorophenol        | 5                       | U |
| 95-95-4  | 2,4,5-Trichlorophenol        | 20                      | U |
| 91-58-7  | 2-Chloronaphthalene          | 5                       | U |
| 88-74-4  | 2-Nitroaniline               | 20                      | U |
| 131-11-3 | Dimethylphthalate            | 5                       | U |
| 208-96-8 | Acenaphthylene               | 5                       | U |
| 606-20-2 | 2,6-Dinitrotoluene           | 5                       | U |
| 99-09-2  | 3-Nitroaniline               | 20                      | U |
| 83-32-9  | Acenaphthene                 | 5                       | U |

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

ILCC

EPA SAMPLE NO.

EDPN5

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: EDCF6

Lab Sample ID: 6033.006

Date Received: 04/27/00

Lab File ID: H0996

Date Extracted: 05/01/00

Sample Volume: 1000 (mL)

Date Analyzed: 05/11/00

Concentrated Extract Volume: 1000 (uL)

Dilution Factor: 1.0

Injection Volume: 1 (uL)

| CAS NO.   | COMPOUND                   | CONCENTRATION (ug/L) | Q |
|-----------|----------------------------|----------------------|---|
| 51-28-5   | 2,4-Dinitrophenol          | 20                   | U |
| 100-02-7  | 4-Nitrophenol              | 20                   | U |
| 132-64-9  | Dibenzofuran               | 5                    | U |
| 121-14-2  | 2,4-Dinitrotoluene         | 5                    | U |
| 84-66-2   | Diethylphthalate           | 5                    | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 5                    | U |
| 86-73-7   | Fluorene                   | 5                    | U |
| 100-01-6  | 4-Nitroaniline             | 20                   | U |
| 534-52-1  | 4,6-Dinitro-2-methylphenol | 20                   | U |
| 86-30-6   | N-Nitrosodiphenylamine (1) | 5                    | U |
| 101-55-3  | 4-Bromophenyl-phenylether  | 5                    | U |
| 118-74-1  | Hexachlorobenzene          | 5                    | U |
| 87-86-5   | Pentachlorophenol          | 20                   | U |
| 85-01-8   | Phenanthrene               | 5                    | U |
| 120-12-7  | Anthracene                 | 5                    | U |
| 84-74-2   | Di-n-butylphthalate        | 5                    | U |
| 206-44-0  | Fluoranthene               | 5                    | U |
| 129-00-0  | Pyrene                     | 5                    | U |
| 85-68-7   | Butylbenzylphthalate       | 5                    | U |
| 91-94-1   | 3,3'-Dichlorobenzidine     | 5                    | U |
| 56-55-3   | Benzo(a)anthracene         | 5                    | U |
| 218-01-9  | Chrysene                   | 5                    | U |
| 117-81-7  | bis(2-Ethylhexyl)phthalate | 5                    | U |
| 117-84-0  | Di-n-octylphthalate        | 5                    | U |
| 205-99-2  | Benzo(b)fluoranthene       | 5                    | U |
| 207-08-9  | Benzo(k)fluoranthene       | 5                    | U |
| 50-32-8   | Benzo(a)pyrene             | 5                    | U |
| 193-39-5  | Indeno(1,2,3-cd)Pyrene     | 5                    | U |
| 53-70-3   | Dibenz(a,h)anthracene      | 5                    | U |
| 191-24-2  | Benzo(g,h,i)perylene       | 5                    | U |

(1) - Cannot be separated from Diphenylamine

1LCF  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EDPN5

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004

Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: EDCF6

Lab Sample ID: 6033.006      Date Received: 04/27/00

Lab File ID: H0996      Date Extracted: 05/01/00

Sample Volume: 1000 (mL)      Date Analyzed: 05/11/00

Concentrated Extract Volume: 1000 (uL)      Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

Number TICs found:      0

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC.<br>(ug/L) | Q |
|------------|---------------|----|----------------------|---|
| 1.         |               |    |                      |   |
| 2.         |               |    |                      |   |
| 3.         |               |    |                      |   |
| 4.         |               |    |                      |   |
| 5.         |               |    |                      |   |
| 6.         |               |    |                      |   |
| 7.         |               |    |                      |   |
| 8.         |               |    |                      |   |
| 9.         |               |    |                      |   |
| 10.        |               |    |                      |   |
| 11.        |               |    |                      |   |
| 12.        |               |    |                      |   |
| 13.        |               |    |                      |   |
| 14.        |               |    |                      |   |
| 15.        |               |    |                      |   |
| 16.        |               |    |                      |   |
| 17.        |               |    |                      |   |
| 18.        |               |    |                      |   |
| 19.        |               |    |                      |   |
| 20.        |               |    |                      |   |
| 21.        |               |    |                      |   |
| 22.        |               |    |                      |   |
| 23.        |               |    |                      |   |
| 24.        |               |    |                      |   |
| 25.        |               |    |                      |   |
| 26.        |               |    |                      |   |
| 27.        |               |    |                      |   |
| 28.        |               |    |                      |   |
| 29.        |               |    |                      |   |
| 30.        |               |    |                      |   |

1LCB  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDPN6

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: EDCF6

Lab Sample ID: 6033.007

Date Received: 04/27/00

Lab File ID: H0997

Date Extracted: 05/01/00

Sample Volume: 1000 (mL)

Date Analyzed: 05/11/00

Concentrated Extract Volume: 1000 (uL)

Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

| CAS NO.  | COMPOUND                     | CONCENTRATION<br>(ug/L) | Q |
|----------|------------------------------|-------------------------|---|
| 108-95-2 | Phenol                       | 5                       | U |
| 111-44-4 | bis(2-Chloroethyl) ether     | 5                       | U |
| 95-57-8  | 2-Chlorophenol               | 5                       | U |
| 95-48-7  | 2-Methylphenol               | 5                       | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 5                       | U |
| 106-44-5 | 4-Methylphenol               | 5                       | U |
| 621-64-7 | N-Nitroso-di-n-propylamine   | 5                       | U |
| 67-72-1  | Hexachloroethane             | 5                       | U |
| 98-95-3  | Nitrobenzene                 | 5                       | U |
| 78-59-1  | Isophorone                   | 5                       | U |
| 88-75-5  | 2-Nitrophenol                | 5                       | U |
| 105-67-9 | 2,4-Dimethylphenol           | 5                       | U |
| 111-91-1 | bis(2-Chloroethoxy)methane   | 5                       | U |
| 120-83-2 | 2,4-Dichlorophenol           | 5                       | U |
| 91-20-3  | Naphthalene                  | 5                       | U |
| 106-47-8 | 4-Chloroaniline              | 5                       | U |
| 87-68-3  | Hexachlorobutadiene          | 5                       | U |
| 59-50-7  | 4-Chloro-3-methylphenol      | 5                       | U |
| 91-57-6  | 2-Methylnaphthalene          | 5                       | U |
| 77-47-4  | Hexachlorocyclopentadiene    | 5                       | U |
| 88-06-2  | 2,4,6-Trichlorophenol        | 5                       | U |
| 95-95-4  | 2,4,5-Trichlorophenol        | 20                      | U |
| 91-58-7  | 2-Chloronaphthalene          | 5                       | U |
| 88-74-4  | 2-Nitroaniline               | 20                      | U |
| 131-11-3 | Dimethylphthalate            | 5                       | U |
| 208-96-8 | Acenaphthylene               | 5                       | U |
| 606-20-2 | 2,6-Dinitrotoluene           | 5                       | U |
| 99-09-2  | 3-Nitroaniline               | 20                      | U |
| 83-32-9  | Acenaphthene                 | 5                       | U |

1LCC  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDPN6

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: EDCF6

Lab Sample ID: 6033.007

Date Received: 04/27/00

Lab File ID: H0997

Date Extracted: 05/01/00

Sample Volume: 1000 (mL)

Date Analyzed: 05/11/00

Concentrated Extract Volume: 1000 (uL)

Dilution Factor: 1.0

Injection Volume: 1 (uL)

| CAS NO.   | COMPOUND                   | CONCENTRATION<br>(ug/L) | Q |
|-----------|----------------------------|-------------------------|---|
| 51-28-5   | 2,4-Dinitrophenol          | 20                      | U |
| 100-02-7  | 4-Nitrophenol              | 20                      | U |
| 132-64-9  | Dibenzofuran               | 5                       | U |
| 121-14-2  | 2,4-Dinitrotoluene         | 5                       | U |
| 84-66-2   | Diethylphthalate           | 5                       | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 5                       | U |
| 86-73-7   | Fluorene                   | 5                       | U |
| 100-01-6  | 4-Nitroaniline             | 20                      | U |
| 534-52-1  | 4,6-Dinitro-2-methylphenol | 20                      | U |
| 86-30-6   | N-Nitrosodiphenylamine (1) | 5                       | U |
| 101-55-3  | 4-Bromophenyl-phenylether  | 5                       | U |
| 118-74-1  | Hexachlorobenzene          | 5                       | U |
| 87-86-5   | Pentachlorophenol          | 20                      | U |
| 85-01-8   | Phenanthrene               | 5                       | U |
| 120-12-7  | Anthracene                 | 5                       | U |
| 84-74-2   | Di-n-butylphthalate        | 5                       | U |
| 206-44-0  | Fluoranthene               | 5                       | U |
| 129-00-0  | Pyrene                     | 5                       | U |
| 85-68-7   | Butylbenzylphthalate       | 5                       | U |
| 91-94-1   | 3,3'-Dichlorobenzidine     | 5                       | U |
| 56-55-3   | Benzo(a)anthracene         | 5                       | U |
| 218-01-9  | Chrysene                   | 5                       | U |
| 117-81-7  | bis(2-Ethylhexyl)phthalate | 5                       | U |
| 117-84-0  | Di-n-octylphthalate        | 5                       | U |
| 205-99-2  | Benzo(b)fluoranthene       | 5                       | U |
| 207-08-9  | Benzo(k)fluoranthene       | 5                       | U |
| 50-32-8   | Benzo(a)pyrene             | 5                       | U |
| 193-39-5  | Indeno(1,2,3-cd)Pyrene     | 5                       | U |
| 53-70-3   | Dibenz(a,h)anthracene      | 5                       | U |
| 191-24-2  | Benzo(g,h,i)perylene       | 5                       | U |

(1) - Cannot be separated from Diphenylamine

1LGF  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EDPN6

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004

Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: EDCF6

Lab Sample ID: 6033.007      Date Received: 04/27/00

Lab File ID: H0997      Date Extracted: 05/01/00

Sample Volume: 1000 (mL)      Date Analyzed: 05/11/00

Concentrated Extract Volume: 1000 (uL)      Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

Number TICs found:      0

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC.<br>(ug/L) | Q |
|------------|---------------|----|----------------------|---|
| 1.         |               |    |                      |   |
| 2.         |               |    |                      |   |
| 3.         |               |    |                      |   |
| 4.         |               |    |                      |   |
| 5.         |               |    |                      |   |
| 6.         |               |    |                      |   |
| 7.         |               |    |                      |   |
| 8.         |               |    |                      |   |
| 9.         |               |    |                      |   |
| 10.        |               |    |                      |   |
| 11.        |               |    |                      |   |
| 12.        |               |    |                      |   |
| 13.        |               |    |                      |   |
| 14.        |               |    |                      |   |
| 15.        |               |    |                      |   |
| 16.        |               |    |                      |   |
| 17.        |               |    |                      |   |
| 18.        |               |    |                      |   |
| 19.        |               |    |                      |   |
| 20.        |               |    |                      |   |
| 21.        |               |    |                      |   |
| 22.        |               |    |                      |   |
| 23.        |               |    |                      |   |
| 24.        |               |    |                      |   |
| 25.        |               |    |                      |   |
| 26.        |               |    |                      |   |
| 27.        |               |    |                      |   |
| 28.        |               |    |                      |   |
| 29.        |               |    |                      |   |
| 30.        |               |    |                      |   |

11CB  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

EDPN7

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: EDCF6

Lab Sample ID: 6033.008

Date Received: 04/27/00

Lab File ID: H0998

Date Extracted: 05/01/00

Sample Volume: 1000 (mL)

Date Analyzed: 05/11/00

Concentrated Extract Volume: 1000 (uL)

Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

| CAS NO.  | COMPOUND                     | CONCENTRATION<br>(ug/L) | Q |
|----------|------------------------------|-------------------------|---|
| 108-95-2 | Phenol                       | 5                       | U |
| 111-44-4 | bis(2-Chloroethyl) ether     | 5                       | U |
| 95-57-8  | 2-Chlorophenol               | 5                       | U |
| 95-48-7  | 2-Methylphenol               | 5                       | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 5                       | U |
| 106-44-5 | 4-Methylphenol               | 5                       | U |
| 621-64-7 | N-Nitroso-di-n-propylamine   | 5                       | U |
| 67-72-1  | Hexachloroethane             | 5                       | U |
| 98-95-3  | Nitrobenzene                 | 5                       | U |
| 78-59-1  | Isophorone                   | 5                       | U |
| 88-75-5  | 2-Nitrophenol                | 5                       | U |
| 105-67-9 | 2,4-Dimethylphenol           | 5                       | U |
| 111-91-1 | bis(2-Chloroethoxy)methane   | 5                       | U |
| 120-83-2 | 2,4-Dichlorophenol           | 5                       | U |
| 91-20-3  | Naphthalene                  | 5                       | U |
| 106-47-8 | 4-Chloroaniline              | 5                       | U |
| 87-68-3  | Hexachlorobutadiene          | 5                       | U |
| 59-50-7  | 4-Chloro-3-methylphenol      | 5                       | U |
| 91-57-6  | 2-Methylnaphthalene          | 5                       | U |
| 77-47-4  | Hexachlorocyclopentadiene    | 5                       | U |
| 88-06-2  | 2,4,6-Trichlorophenol        | 5                       | U |
| 95-95-4  | 2,4,5-Trichlorophenol        | 20                      | U |
| 91-58-7  | 2-Chloronaphthalene          | 5                       | U |
| 88-74-4  | 2-Nitroaniline               | 20                      | U |
| 131-11-3 | Dimethylphthalate            | 5                       | U |
| 208-96-8 | Acenaphthylene               | 5                       | U |
| 606-20-2 | 2,6-Dinitrotoluene           | 5                       | U |
| 99-09-2  | 3-Nitroaniline               | 20                      | U |
| 83-32-9  | Acenaphthene                 | 5                       | U |

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

ILCC

EPA SAMPLE NO.

EDPN7

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: EDCF6

Lab Sample ID: 6033.008

Date Received: 04/27/00

Lab File ID: H0998

Date Extracted: 05/01/00

Sample Volume: 1000 (mL)

Date Analyzed: 05/11/00

Concentrated Extract Volume: 1000 (uL)

Dilution Factor: 1.0

Injection Volume: 1 (uL)

| CAS NO.        | COMPOUND                   | CONCENTRATION<br>(ug/L) | Q |
|----------------|----------------------------|-------------------------|---|
| 51-28-5-----   | 2,4-Dinitrophenol          | 20                      | U |
| 100-02-7-----  | 4-Nitrophenol              | 20                      | U |
| 132-64-9-----  | Dibenzofuran               | 5                       | U |
| 121-14-2-----  | 2,4-Dinitrotoluene         | 5                       | U |
| 84-66-2-----   | Diethylphthalate           | 5                       | U |
| 7005-72-3----- | 4-Chlorophenyl-phenylether | 5                       | U |
| 86-73-7-----   | Fluorene                   | 5                       | U |
| 100-01-6-----  | 4-Nitroaniline             | 20                      | U |
| 534-52-1-----  | 4,6-Dinitro-2-methylphenol | 20                      | U |
| 86-30-6-----   | N-Nitrosodiphenylamine (1) | 5                       | U |
| 101-55-3-----  | 4-Bromophenyl-phenylether  | 5                       | U |
| 118-74-1-----  | Hexachlorobenzene          | 5                       | U |
| 87-86-5-----   | Pentachlorophenol          | 20                      | U |
| 85-01-8-----   | Phenanthrene               | 5                       | U |
| 120-12-7-----  | Anthracene                 | 5                       | U |
| 84-74-2-----   | Di-n-butylphthalate        | 5                       | U |
| 206-44-0-----  | Fluoranthene               | 5                       | U |
| 129-00-0-----  | Pyrene                     | 5                       | U |
| 85-68-7-----   | Butylbenzylphthalate       | 5                       | U |
| 91-94-1-----   | 3,3'-Dichlorobenzidine     | 5                       | U |
| 56-55-3-----   | Benzo(a)anthracene         | 5                       | U |
| 218-01-9-----  | Chrysene                   | 5                       | U |
| 117-81-7-----  | bis(2-Ethylhexyl)phthalate | 2                       | J |
| 117-84-0-----  | Di-n-octylphthalate        | 5                       | U |
| 205-99-2-----  | Benzo(b)fluoranthene       | 5                       | U |
| 207-08-9-----  | Benzo(k)fluoranthene       | 5                       | U |
| 50-32-8-----   | Benzo(a)pyrene             | 5                       | U |
| 193-39-5-----  | Indeno(1,2,3-cd)Pyrene     | 5                       | U |
| 53-70-3-----   | Dibenz(a,h)anthracene      | 5                       | U |
| 191-24-2-----  | Benzo(g,h,i)perylene       | 5                       | U |

(1) - Cannot be separated from Diphenylamine

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EDPN7 ✓

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

Lab Code: PDP Case No.: 27986 SAS No.: \_\_\_\_\_ SDG No.: EDCF6

GP114-

Lab Sample ID: 6033.008 Date Received: 04/27/00

Lab File ID: H0998 Date Extracted: 05/01/00

Sample Volume: 1000 (mL) Date Analyzed: 05/11/00

Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

Number TICs found: 0

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC.<br>(ug/L) | Q |
|------------|---------------|----|----------------------|---|
| 1.         |               |    |                      |   |
| 2.         |               |    |                      |   |
| 3.         |               |    |                      |   |
| 4.         |               |    |                      |   |
| 5.         |               |    |                      |   |
| 6.         |               |    |                      |   |
| 7.         |               |    |                      |   |
| 8.         |               |    |                      |   |
| 9.         |               |    |                      |   |
| 10.        |               |    |                      |   |
| 11.        |               |    |                      |   |
| 12.        |               |    |                      |   |
| 13.        |               |    |                      |   |
| 14.        |               |    |                      |   |
| 15.        |               |    |                      |   |
| 16.        |               |    |                      |   |
| 17.        |               |    |                      |   |
| 18.        |               |    |                      |   |
| 19.        |               |    |                      |   |
| 20.        |               |    |                      |   |
| 21.        |               |    |                      |   |
| 22.        |               |    |                      |   |
| 23.        |               |    |                      |   |
| 24.        |               |    |                      |   |
| 25.        |               |    |                      |   |
| 26.        |               |    |                      |   |
| 27.        |               |    |                      |   |
| 28.        |               |    |                      |   |
| 29.        |               |    |                      |   |
| 30.        |               |    |                      |   |

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION V

DATE:

SUBJECT: Review of Data  
Received for Review on 5-23-00

FROM: Stephen L. Ostrodka, Chief (SMF-4J) *for Steve Ostrodka*  
Superfund Field Services Section *Richard J. Byrnes*  
*6/27/00*

TO: Data User: USEPA

We have reviewed the data for the following case:

SITE NAME: HIMCO LANDFILL (IN)

CASE NUMBER: 27986 SDG NUMBER: EDCGO

Number and Type of Samples: 17 (WATER)

Sample Numbers: EDCGO, EDCG2, EDCG4-9, EDCHO, E00FA, E00FB-E,

Laboratory: PDP Hrs for Review: 12  
*E00F8-9, E0057*

Following are our findings:

*The data are usable and acceptable within the qualifications described in the attached narrative.*  
*Richard J. Byrnes*

CC: Cecilia Moore  
Region 5 TPO  
Mail Code: SM-5J

Lockheed Martin Services Group  
Environmental Services & Technologies Region 5  
536 South Clark Street #1050 Chicago, IL 60605  
Telephone 312-353-8302 Facsimile 312-353-8307



Date: June 23, 2000

To: Richard Byvik, EPA WAM

From: W. Ira Wilson, ESAT Chemist

Thru: Ziyad Rajabi, ESAT Team Manager

Copies: W. Ira Wilson, ESAT Organic Group Leader  
Jay Thakkar, ESAT Contract RPO

Ref: TDF# 5207-1029  
WA# 05-00-4-07  
Contract # 68D60002

SUBJECT: Organic Data Review for Case 27986 ; SDG # EDCG0. Volatile and Semivolatile Analyses Using SOW OLC02.1(Low Conc. Analysis).

Attached is the deliverable for Case 27986, SDG EDCG0 of Volatile and Semivolatile analysis for seventeen (17) water samples. Included in the deliverable is the Manually prepare case narrative. If you have any question please feel free to contact Ira Wilson; 312/353-2947.

MW w/o EP  
VOC & SVOCs

NARRATIVE

LABORATORY: PDP ANALYTICAL SRVs.

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SDG: EDCG0

CASE: 27986

SITE: HIMCO LANDFILL

This review covers seventeen (17) low concentration water samples, numbered EDCG0, EDCG2, EDCG4 through EDCG9, EDCH0, E00FA through E00FE, E00F8, E00F9 and E0057, were collected on 04/26 and 28/2000. The PDP Analytical Services, of Woodland, TX received the samples on 04/28/2000, in good condition. The samples were analyzed for low concentration VOAs and SVOAs. All samples were analyzed per CLP SOW OLC02.1.

Laboratory Control Samples (LCS) Identified as VLCS96 and VLCS97 (VOA) and SLCS70 (SVOA) were analyzed in place of matrix spike/matrix spike duplicate (MS/MSD) samples.

The VOA samples were analyzed within the holding time of fourteen (14) days for preserved water samples and the SVOA samples were extracted within the required holding time of seven days. The analysis of the semivolatile extracts were performed within forty (40) days. Therefore, the results for the VOA and SVOA fractions are acceptable.

The reviewer's narrative and data qualifiers are noted in the following pages.

Reviewed by: W. Ira Wilson\_\_Lockheed Martin/ESAT

Date: \_\_June 16 , 2000

**NARRATIVE**

**LABORATORY: PDP ANALYTICAL SRVs.**

Page **3** of **4**

**SDG: EDCG0**

**CASE: 27986**

**SITE: HIMCO LANDFILL**

Below is a summary of the out-of-control audits and the possible effect on the data for this case.

**1. HOLDING TIME**

This review covers seventeen (17) low concentration water samples, numbered EDCG0, EDCG2, EDCG4 through EDCG9, EDCH0, E00FA through E00FE, E00F8, E00F9 and E0057, were collected on 04/26 and 28/2000. The PDP Analytical Services, of Woodland, TX received the samples on 04/28/2000 in good condition. The samples were analyzed for low concentration VOAs and SVOAs. All samples were analyzed per CLP SOW OLC02.1.

The VOA samples were analyzed within the holding time of fourteen (14) days for preserved water samples; therefore, the results are acceptable.

The SVOA samples were extracted within the holding time of seven (7) days. The extracts were promptly analyzed within the required 40 days criteria. Therefore; the results are acceptable.

**2. GC/MS TUNING AND GC PERFORMANCE**

GC/MS tuning complied with the mass list and ion abundance criteria for BFB and DFTPP.

**3. CALIBRATION**

Initial and continuing calibration standards of VOA and SVOA were evaluated for the Target Compounds List (TCL) and outliers were recorded on the outlier forms included as a part of this narrative.

**4. METHOD BLANK**

Blanks VBLK96 and VBLK97 are the low concentration water Volatile Method Blanks. The Method Blanks were clean, no TCLs or TICs reported. Blank VHBLK01 is identified as a Holding Blank sample which was also clean.

Reviewed by: W. Ira Wilson\_\_Lockheed Martin/ESAT

Date: \_\_June 16 , 2000

NARRATIVE

LABORATORY: PDP ANALYTICAL SRVs.

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SDG: EDCG0

CASE: 27986

SITE: HIMCO LANDFILL

Blank SBLK39 is the low conc. water Semivolatile Method Blank. Blank SBLK39 reported no TCLs and no TICs.

Please refer to Form-IV LCV and Form-IV LCSV for a list of associated samples.

**5. SURROGATE RECOVERY AND SYSTEM MONITORING COMPOUNDS**

The low concentration recovery of the system monitoring spiking Compound (BFB = Bromofluorobenzene) for the volatile analysis and the surrogate compounds for the semivolatile analysis met the required QC limits for all samples; therefore, all results are acceptable.

**6. MATRIX SPIKE/MSD SAMPLES**

A Laboratory Control (LCS) Samples identified as VLCS96 and VLCS97 (for volatiles) and SLCS70 (for semivolatiles) were used in place of a matrix spike/matrix spike duplicate sample for the low concentration analysis. All spike recoveries were within the QC limits; therefore, the results are acceptable.

**7. FIELD BLANK AND FIELD DUPLICATE**

No samples were identified as Trip Blanks, Field Blanks or Duplicates. Results are not qualified based upon the results of the Field Blanks or Duplicates.

**8. INTERNAL STANDARDS**

The internal standard retention times and area counts for the low concentration volatile and semivolatile samples were within the required QC limits; therefore, the results are acceptable.

**9. COMPOUND IDENTIFICATION**

Target compounds and TICs were correctly identified by "best fit"

Reviewed by: W. Ira Wilson\_\_Lockheed Martin/ESAT

Date: \_\_June 16 , 2000

NARRATIVE

LABORATORY: PDP ANALYTICAL SRVs.

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SDG: EDCG0

CASE: 27986

SITE: HIMCO LANDFILL

library search method.

**10. COMPOUND QUANTITATION AND REPORTED DETECTION LIMITS**

VOA and SVOA Target Compounds (TCLs) and Tentative Identified Compounds (TICs) were properly quantitated; therefore, the results are acceptable.

**11. SYSTEM PERFORMANCE**

GC/MS baseline indicated acceptable performance.

GC baseline for pest/PCB analysis indicated acceptable performance.

**12. ADDITIONAL INFORMATION**

None.

Reviewed by: W. Ira Wilson\_\_Lockheed Martin/ESAT

Date: \_\_June 16 , 2000

6 8

CALIBRATION OUTLIERS  
LOW CONCENTRATION WATER VOLATILE TCL COMPOUNDS  
(page 1 of 1)

CASE# 27986  
COLUMN# DB624  
HEATED PURGE(Y/N):

LABORATORY PD & ANALYTICAL  
SITENAME HWA CO LAUD FILL

| Instrument#                 | Date/Time | Initial cal. |    |      | Contin. cal |    |    | Contin. Cal. |    |    | Contin. Cal. |    |    | Contin. Cal. |    |    |
|-----------------------------|-----------|--------------|----|------|-------------|----|----|--------------|----|----|--------------|----|----|--------------|----|----|
|                             |           | #            | rt | %RSD | rt          | %d | ** | rt           | %d | ** | rt           | %d | ** | rt           | %d | ** |
| <u>G-HP5973</u>             |           |              |    |      |             |    |    |              |    |    |              |    |    |              |    |    |
|                             |           |              |    |      |             |    |    |              |    |    |              |    |    |              |    |    |
| Chloromethane               | 0.01      |              |    |      |             |    |    |              |    |    |              |    |    |              |    |    |
| Bromethane                  | 0.10      |              |    |      |             |    |    |              |    |    |              |    |    |              |    |    |
| Vinyl chloride              | 0.10      |              |    |      |             |    |    |              |    |    |              |    |    |              |    |    |
| Chloroethane                | 0.01      |              |    |      |             |    |    |              |    |    |              |    |    |              |    |    |
| Methylene chloride          | 0.01      |              |    |      |             |    |    |              |    |    |              |    |    |              |    |    |
| Acetone                     | 0.01      |              |    |      |             |    |    |              |    |    |              |    |    |              |    |    |
| Carbon disulfide            | 0.01      |              |    |      |             |    |    |              |    |    |              |    |    |              |    |    |
| 1,1-Dichloroethene          | 0.10      |              |    |      |             |    |    |              |    |    |              |    |    |              |    |    |
| 1,1-Dichloroethane          | 0.20      |              |    |      |             |    |    |              |    |    |              |    |    |              |    |    |
| cis-1,2-Dichloroethene      | 0.10      |              |    |      |             |    |    |              |    |    |              |    |    |              |    |    |
| trans-1,2-Dichloroethene    | 0.10      |              |    |      |             |    |    |              |    |    |              |    |    |              |    |    |
| Chloroform                  | 0.20      |              |    |      |             |    |    |              |    |    |              |    |    |              |    |    |
| 1,2-Dichloroethane          | 0.10      |              |    |      |             |    |    |              |    |    |              |    |    |              |    |    |
| 2-Butanone                  | 0.01      |              |    |      |             |    |    |              |    |    |              |    |    |              |    |    |
| Bromochloromethane          | 0.05      |              |    |      |             |    |    |              |    |    |              |    |    |              |    |    |
| 1,1,1-Trichloroethane       | 0.10      |              |    |      |             |    |    |              |    |    |              |    |    |              |    |    |
| Carbon tetrachloride        | 0.10      |              |    |      |             |    |    |              |    |    |              |    |    |              |    |    |
| Bromodichloromethane        | 0.20      |              |    |      |             |    |    |              |    |    |              |    |    |              |    |    |
| 1,2-Dichloropropane         | 0.01      |              |    |      |             |    |    |              |    |    |              |    |    |              |    |    |
| cis-1,3-Dichloropropene     | 0.20      |              |    |      |             |    |    |              |    |    |              |    |    |              |    |    |
| Trichloroethene             | 0.30      |              |    |      |             |    |    |              |    |    |              |    |    |              |    |    |
| Dibromochloromethane        | 0.10      |              |    |      |             |    |    |              |    |    |              |    |    |              |    |    |
| 1,1,2-trichloroethane       | 0.10      |              |    |      |             |    |    |              |    |    |              |    |    |              |    |    |
| Benzene                     | 0.40      |              |    |      |             |    |    |              |    |    |              |    |    |              |    |    |
| trans-1,3-Dichloropropene   | 0.10      |              |    |      |             |    |    |              |    |    |              |    |    |              |    |    |
| Bromoform                   | 0.05      |              |    |      |             |    |    |              |    |    |              |    |    |              |    |    |
| 4-Methyl-2-Pentanone        | 0.01      |              |    |      |             |    |    |              |    |    |              |    |    |              |    |    |
| 2-Hexanone                  | 0.01      |              |    |      |             |    |    |              |    |    |              |    |    |              |    |    |
| Tetrachloroethene           | 0.10      |              |    |      |             |    |    |              |    |    |              |    |    |              |    |    |
| 1,1,2,2-Tetrachloroethane   | 0.10      |              |    |      |             |    |    |              |    |    |              |    |    |              |    |    |
| 1,2-Dibromoethane           | 0.10      |              |    |      |             |    |    |              |    |    |              |    |    |              |    |    |
| Toluene                     | 0.40      |              |    |      |             |    |    |              |    |    |              |    |    |              |    |    |
| Chlorobenzene               | 0.50      |              |    |      |             |    |    |              |    |    |              |    |    |              |    |    |
| Ethylbenzene                | 0.10      |              |    |      |             |    |    |              |    |    |              |    |    |              |    |    |
| Styrene                     | 0.30      |              |    |      |             |    |    |              |    |    |              |    |    |              |    |    |
| Xylene (total)              | 0.30      |              |    |      |             |    |    |              |    |    |              |    |    |              |    |    |
| 1,2-Dibromo-3-chloropropane | 0.10      |              |    |      |             |    |    |              |    |    |              |    |    |              |    |    |
| 1,3-Dichlorobenzene         | 0.40      |              |    |      |             |    |    |              |    |    |              |    |    |              |    |    |
| 1,4-Dichlorobenzene         | 0.40      |              |    |      |             |    |    |              |    |    |              |    |    |              |    |    |
| 1,2-Dichlorobenzene         | 0.40      |              |    |      |             |    |    |              |    |    |              |    |    |              |    |    |
| 1,2,4-Trichlorobenzene      | 0.40      |              |    |      |             |    |    |              |    |    |              |    |    |              |    |    |
| 4-Bromofluorobenzene        | 0.20      |              |    |      |             |    |    |              |    |    |              |    |    |              |    |    |

| Samples affected: |  |                  |                |  |
|-------------------|--|------------------|----------------|--|
|                   |  | <u>VBK96</u>     | <u>VBK97</u>   |  |
|                   |  | <u>VLS96</u>     | <u>VLS97</u>   |  |
|                   |  | <u>EDCG0, G2</u> | <u>EDCFA</u>   |  |
|                   |  | <u>EDCG4-GA</u>  | <u>EDCFB</u>   |  |
|                   |  | <u>EDCHO</u>     | <u>EDCFD</u>   |  |
|                   |  | <u>EDCF8</u>     | <u>EDCFC</u>   |  |
|                   |  | <u>EDCS7</u>     | <u>EDCFE</u>   |  |
|                   |  | <u>EDCF9</u>     | <u>VHBLK01</u> |  |
|                   |  |                  |                |  |
|                   |  |                  |                |  |
|                   |  |                  |                |  |

Reviewer's Init/Date 6/14/00

J/R= All positive results are estimated "J" and non-detected results are unusable "R"  
 \*\* = These flags should be applied to the analytes on the sample data sheets  
 # = Minimum Relative Response Factor

CALIBRATION OUTLIER  
LOW CONCENTRATION WATER SEMIVOLATILE TCL COMPOUNDS  
(Page 1 of 2)

CASE/SAS#: 27986  
COLUMN: \_\_\_\_\_

LABORATORY: PDP ANALYTICAL  
SITE NAME: NIHICO LANDFILL

| Instrument#                 | Initial Cal. | Contin. Cal. | Contin. Cal. | Contin. Cal. | Contin. Cal. |      |   |       |      |   |    |    |   |    |    |   |  |
|-----------------------------|--------------|--------------|--------------|--------------|--------------|------|---|-------|------|---|----|----|---|----|----|---|--|
| Date/Time:                  | 5/7/00-1033  | 5/17/00-0001 | 5/17/00-1504 |              |              |      |   |       |      |   |    |    |   |    |    |   |  |
|                             | #            | rf           | %rsd         | *            | rf           | %d   | * | rf    | %d   | * | rf | %d | * | rf | %d | * |  |
| Phenol                      | 0.80         |              |              |              |              |      |   |       |      |   |    |    |   |    |    |   |  |
| bis(2-chloroethyl) Ether    | 0.70         |              |              |              |              |      |   |       |      |   |    |    |   |    |    |   |  |
| 2-Chlorophenol              | 0.70         |              |              |              |              |      |   |       |      |   |    |    |   |    |    |   |  |
| 2-Methylphenol              | 0.70         |              |              |              |              |      |   |       |      |   |    |    |   |    |    |   |  |
| 2,2'-Oxybis(1-chl-propane)  | 0.01         |              |              |              |              |      |   |       |      |   |    |    |   |    |    |   |  |
| 4-Methylphenol              | 0.60         |              |              |              |              |      |   |       |      |   |    |    |   |    |    |   |  |
| N-nitroso-di-n-propylamine  | 0.50         |              |              |              |              |      |   |       |      |   |    |    |   |    |    |   |  |
| Hexachloroethane            | 0.30         |              |              |              |              |      |   |       |      |   |    |    |   |    |    |   |  |
| Nitrobenzene                | 0.20         |              |              |              |              |      |   |       |      |   |    |    |   |    |    |   |  |
| Phorone                     | 0.40         |              |              |              |              |      |   |       |      |   |    |    |   |    |    |   |  |
| 2-Nitrophenol               | 0.10         |              |              |              |              |      |   |       |      |   |    |    |   |    |    |   |  |
| 2,4-Dimethylphenol          | 0.20         |              |              |              |              |      |   |       |      |   |    |    |   |    |    |   |  |
| bis-(2-chloroethoxy)methane | 0.30         |              |              |              |              |      |   |       |      |   |    |    |   |    |    |   |  |
| 2,4-Dichlorophenol          | 0.20         |              |              |              |              |      |   |       |      |   |    |    |   |    |    |   |  |
| 1,2,4-Trichlorobenzene      | 0.20         |              |              |              |              |      |   |       |      |   |    |    |   |    |    |   |  |
| Naphthalene                 | 0.70         |              |              |              |              |      |   |       |      |   |    |    |   |    |    |   |  |
| 4-Chloroaniline             | 0.01         | 0.366        |              |              | 0.361        |      |   | 0.219 | 26.6 | J |    |    |   |    |    |   |  |
| 1,4-dichlorobutadiene       | 0.01         |              |              |              |              |      |   |       |      |   |    |    |   |    |    |   |  |
| 2-chloro-3-methylphenol     | 0.20         |              |              |              |              |      |   |       |      |   |    |    |   |    |    |   |  |
| 2-Methylnaphthalene         | 0.40         |              |              |              |              |      |   |       |      |   |    |    |   |    |    |   |  |
| Hexachlorocyclopentadiene   | 0.01         |              |              |              |              |      |   |       |      |   |    |    |   |    |    |   |  |
| 2,4,6-Trichlorophenol       | 0.20         |              |              |              |              |      |   |       |      |   |    |    |   |    |    |   |  |
| 2,4,5-Trichlorophenol       | 0.20         |              |              |              |              |      |   |       |      |   |    |    |   |    |    |   |  |
| 2-Chloronaphthalene         | 0.80         |              |              |              |              |      |   |       |      |   |    |    |   |    |    |   |  |
| 2-Nitroaniline              | 0.01         |              |              |              |              |      |   |       |      |   |    |    |   |    |    |   |  |
| Dimethyl phthalate          | 0.01         |              |              |              |              |      |   |       |      |   |    |    |   |    |    |   |  |
| Acenaphthylene              | 1.30         |              |              |              |              |      |   |       |      |   |    |    |   |    |    |   |  |
| 1,3-Dinitrotoluene          | 0.20         |              |              |              |              |      |   |       |      |   |    |    |   |    |    |   |  |
| 3-Nitroaniline              | 0.01         |              |              |              |              |      |   |       |      |   |    |    |   |    |    |   |  |
| Acenaphthene                | 0.30         |              |              |              |              |      |   |       |      |   |    |    |   |    |    |   |  |
| 2,4-Dinitrophenol           | 0.01         | 0.104        | 45.7         | J            | 0.147        | 40.7 | J | 0.153 | 46.5 | J |    |    |   |    |    |   |  |
| 4-Nitrophenol               | 0.01         | 0.233        |              |              | 0.292        | 25.2 | J | 0.339 | 45.4 | S |    |    |   |    |    |   |  |
| Dibenzofuran                | 0.80         |              |              |              |              |      |   |       |      |   |    |    |   |    |    |   |  |
| 2,4-Dinitrotoluene          | 0.20         |              |              |              |              |      |   |       |      |   |    |    |   |    |    |   |  |

Affected samples:

SBLK 39 EDDFB  
 SLC 570 EDDFC  
 FDCC 0.62 EDDFD W  
 FDCC 4-69 EDDFE  
 EDDFS  
 EDDF4  
 EDDFA

Reviewer's Init/Date: [Signature] 6/11/00

J/R = All positive results are estimated "J" and non-detected results are unusable "R"

\* = These flags should be applied to the analytes on the sample data sheets.

# = Minimum Relative Response Factor

Pg 8 of 8

CALIBRATION OUTLIER  
LOW CONCENTRATION WATER SEMIVOLATILE TCL COMPOUNDS

(Page 2 of 2)

CASE/SAS#: 27986  
COLUMN: \_\_\_\_\_

LABORATORY: PDP ANALYTICAL  
SITE NAME: HULLO LANDFILL

| Instrument#                | Date/Time:   | Initial Cal. |    |      | Contin. Cal. |              |    | Contin. Cal. |    |       | Contin. Cal. |    |    | Contin. Cal. |    |    |   |  |
|----------------------------|--------------|--------------|----|------|--------------|--------------|----|--------------|----|-------|--------------|----|----|--------------|----|----|---|--|
|                            |              | #            | rf | %rsd | *            | rf           | %d | *            | rf | %d    | *            | rf | %d | *            | rf | %d | * |  |
| A-HP5973                   | 5/21/00-1033 |              |    |      |              | 5/19/00-0001 |    |              |    |       | 5/12/00-1504 |    |    |              |    |    |   |  |
| Diethylphthalate           | 0.01         |              |    |      |              |              |    |              |    |       |              |    |    |              |    |    |   |  |
| 4-Chlorophenyl-phenylether | 0.40         |              |    |      |              |              |    |              |    |       |              |    |    |              |    |    |   |  |
| Fluorene                   | 0.90         |              |    |      |              |              |    |              |    |       |              |    |    |              |    |    |   |  |
| 4-Nitroaniline             | 0.01         |              |    |      |              |              |    |              |    |       |              |    |    |              |    |    |   |  |
| 4,6-Dinitro-2-methylphenol | 0.01         |              |    |      |              |              |    |              |    |       |              |    |    |              |    |    |   |  |
| N-nitrosodiphenylamine     | 0.01         |              |    |      |              |              |    |              |    |       |              |    |    |              |    |    |   |  |
| 4-Bromophenyl-phenylether  | 0.10         |              |    |      |              |              |    |              |    |       |              |    |    |              |    |    |   |  |
| Hexachlorobenzene          | 0.10         |              |    |      |              |              |    |              |    |       |              |    |    |              |    |    |   |  |
| Pentachlorophenol          | 0.05         |              |    |      |              |              |    |              |    |       |              |    |    |              |    |    |   |  |
| Phenanthrene               | 0.70         |              |    |      |              |              |    |              |    |       |              |    |    |              |    |    |   |  |
| Anthracene                 | 0.70         |              |    |      |              |              |    |              |    |       |              |    |    |              |    |    |   |  |
| Di-n-butylphthalate        | 0.01         |              |    |      |              |              |    |              |    |       |              |    |    |              |    |    |   |  |
| Fluoranthene               | 0.60         |              |    |      |              |              |    |              |    |       |              |    |    |              |    |    |   |  |
| Pyrene                     | 0.60         |              |    |      |              |              |    |              |    |       |              |    |    |              |    |    |   |  |
| Butylbenzylphthalate       | 0.01         |              |    |      |              |              |    |              |    |       |              |    |    |              |    |    |   |  |
| 3,3'-Dichlorobenzidine     | 0.01         | 0.360        |    |      |              | 0.297        |    |              |    | 0.185 | 48.7         | J  |    |              |    |    |   |  |
| Benzo(a)anthracene         | 0.80         |              |    |      |              |              |    |              |    |       |              |    |    |              |    |    |   |  |
| Chrysene                   | 0.70         |              |    |      |              |              |    |              |    |       |              |    |    |              |    |    |   |  |
| bis(2-Ethylhexyl)phthalate | 0.01         |              |    |      |              |              |    |              |    |       |              |    |    |              |    |    |   |  |
| Di-n-octyl phthalate       | 0.01         |              |    |      |              |              |    |              |    |       |              |    |    |              |    |    |   |  |
| Benzo(b)fluoranthene       | 0.70         |              |    |      |              |              |    |              |    |       |              |    |    |              |    |    |   |  |
| Benzo(k)fluoranthene       | 0.70         |              |    |      |              |              |    |              |    |       |              |    |    |              |    |    |   |  |
| Benzo(a)pyrene             | 0.70         |              |    |      |              |              |    |              |    |       |              |    |    |              |    |    |   |  |
| Indeno(1,2,3-cd)pyrene     | 0.50         |              |    |      |              |              |    |              |    |       |              |    |    |              |    |    |   |  |
| Dibenz(a,h)anthracene      | 0.40         |              |    |      |              |              |    |              |    |       |              |    |    |              |    |    |   |  |
| Benzo(g,h,i)perylene       | 0.50         |              |    |      |              |              |    |              |    |       |              |    |    |              |    |    |   |  |
| Nitrobenzene-d5            | 0.01         |              |    |      |              |              |    |              |    |       |              |    |    |              |    |    |   |  |
| 2-Fluorobiphenyl           | 0.70         |              |    |      |              |              |    |              |    |       |              |    |    |              |    |    |   |  |
| Terphenyl-d14              | 0.50         |              |    |      |              |              |    |              |    |       |              |    |    |              |    |    |   |  |
| Phenol-d5                  | 0.80         |              |    |      |              |              |    |              |    |       |              |    |    |              |    |    |   |  |
| 2-Fluorophenol             | 0.60         |              |    |      |              |              |    |              |    |       |              |    |    |              |    |    |   |  |
| 2,4,6-Tribromophenol       | 0.01         |              |    |      |              |              |    |              |    |       |              |    |    |              |    |    |   |  |

Reviewer's Init/Date: WJF  
6/14/00

J/R = All positive results are estimated "J" and non-detected results are unusable "R"

- \* = These flags should be applied to the analytes on the sample data sheets.
- # = Minimum Relative Response Factor

## ORGANIC DATA QUALIFIER DEFINITIONS

For the purpose of defining the flagging nomenclature used in this document, the following code letters and associated definitions are provided:

**VALUE** - when/if the result of a value is greater than or equal to the Contract Required Quantitation Limit (CRQL).

- U** Indicates that the compound was analyzed for, but not detected. The sample quantitation limit corrected for dilution and percent moisture is reported.
- J** Indicates an estimated value. This flag is used either when estimating a concentration for a tentatively identified compound or when the data indicates the presence of a compound where the result is less than the sample quantitation limit, but greater than zero. The flag is also used to indicate a reported result having an associated QC problem.
- R** Indicates the data are unusable. (NOTE: The analyte may or may not be present.)
- N** Indicates presumptive evidence of a compound. This flag is only used for a tentatively identified compound, where the identification is based on a mass spectral library search.
- P** Indicates a pesticide/Aroclor target analyte when there is greater than 25% difference for the detected concentrations between the two GC columns. The lower of the two results is reported.
- C** Indicates pesticide results that have been confirmed by GC/MS.
- B** Indicates the analyte is detected in the associated blank as well as in the sample.
- E** Indicates compounds whose concentrations exceed the calibration range of the instrument.
- D** Indicates an identified compound in an analysis has been diluted. This flag alerts the data user to any differences between the concentrations reported in the two analysis.
- A** Indicates tentatively identified compounds that are suspected to be aldol condensation products.
- G** Indicates the TCLP Matrix Spike Recovery was greater than the upper limit of the analytical method.
- L** Indicates the TCLP Matrix Spike Recovery was less than the lower limit of the analytical method.
- T** Indicates the analyte is found in the associated TCLP extraction blank as well as in the sample.

X,Y,Z are reserved for laboratory defined flags.



United States Environmental Protection Agency  
Contract Laboratory Program

**Organic Traffic Report  
& Chain of Custody Record**  
(For Organic CLP Analysis)

SDG No.

Case No.

|   |  |  |                            |                                   |                       |  |                             |
|---|--|--|----------------------------|-----------------------------------|-----------------------|--|-----------------------------|
| <b>1. Matrix</b><br>(Enter in Column A)<br><br>1. Surface Water<br>2. Ground Water<br>3. Leachate<br>4. Field OC<br>5. Soil/Sediment<br>6. PE-water<br>7. PE-soil<br>8. Other (specify in Column A)   | <b>2. Preservative</b><br>(Enter in Column D)<br><br>1. HCl<br>2. HNO3<br>3. NaHSO4<br>4. H2SO4<br>5. Ice only<br>6. CH3OH<br>7. Other (specify in Column D)<br>N. Not Preserved | <b>3. Region No</b><br>10                      | <b>Sampling Co.</b><br>... | <b>5. Date Shipped</b><br>4/28/00 | <b>Carrier</b><br>... | <b>7. Date Received--Received by:</b><br>4-28-00 <i>Carol Rinn</i> |                             |
|   |  | <b>Sampler (Name)</b><br>...                   |                            | <b>Airbill Number</b><br>...      |                       | <b>Laboratory Contract No.</b><br>68-D7 0004                       | <b>Unit Price</b><br>525.00 |
|   |  | <b>Sampler Signature</b><br><i>[Signature]</i> |                            | <b>6. Ship To:</b><br>...         |                       | <b>8. Transfer to:</b><br>...                                      | <b>Date Received</b><br>... |
| <b>4. Purpose**</b><br>Lead: <input checked="" type="checkbox"/> SF, <input type="checkbox"/> PRP, <input type="checkbox"/> ST, <input type="checkbox"/> FED, <input type="checkbox"/> BZ<br>Early Action: <input type="checkbox"/> IA, <input type="checkbox"/> PA, <input type="checkbox"/> REM, <input type="checkbox"/> RI, <input type="checkbox"/> SI, <input type="checkbox"/> ESI<br>Long Term Action: <input type="checkbox"/> RIFS, <input checked="" type="checkbox"/> RD, <input type="checkbox"/> RA, <input type="checkbox"/> O&M |  | <b>ATTN:</b> ...                               |                            | <b>Received by:</b><br>...        |                       | <b>Contract Number</b><br>...                                      | <b>Price</b><br>...         |

| CLP Sample Numbers (from labels) | A Mainx (from Box 1) Other | B Conc. Low Med | C Sample Type: Comp/Grab | D Preservative (from Box 2) Other | E RAS Analysis              |                             |                             | F Regional Specific Tracking Number or Tag Numbers | G Station Location Identifier | H Mo/Day/Year/Time Sample Collection | I Corresponding CLP Inorganic Sample No. | J Sampler Initials | K Sample Condition |
|----------------------------------|----------------------------|-----------------|--------------------------|-----------------------------------|-----------------------------|-----------------------------|-----------------------------|--|-------------------------------|--------------------------------------|--|--------------------|--------------------|
|                                  |                            |                 |                          |                                   | TA (circle one) PR* 7 14 21 | TA (circle one) PR* 7 14 21 | TA (circle one) PR* 7 14 21 |  |                               |                                      |  |                    |                    |
| ...                              | ...                        | ...             | ...                      | ...                               | VOA                         | BNA                         | Pest/PCB                    | ...  | ...                           | ...                                  | ...                                      | ...                | ...                |
| ...                              | ...                        | ...             | ...                      | ...                               | ...                         | ...                         | ...                         | ...  | ...                           | ...                                  | ...                                      | ...                | ...                |

|   |                    |  |   |   |
|---|--------------------|--|---|---|
| <b>Shipment for Case Complete? (Y/N)</b><br>... | <b>Page</b> of ... | <b>VOA MS/MSD Required? Y/N</b> Sample #: ...      | <b>Additional Sampler Signatures</b><br>... | <b>Chain of Custody Seal Number(s)</b><br>... |
|   |                    | <b>BNA MS/MSD Required? Y/N</b> Sample #: ...      |   |   |
|   |                    | <b>Pest/PCB MS/MSD Required? Y/N</b> Sample #: ... |   |   |

\*PR provides 7-day data turnaround in addition to preliminary results. Requests for preliminary results will increase analytical costs.

**Chain of Custody Record**

|                              |             |   |                              |   |                             |
|------------------------------|-------------|---|------------------------------|---|-----------------------------|
| Relinquished by: (Signature) | Date / Time | Received by: (Signature)                                  | Relinquished by: (Signature) | Date / Time   | Received by: (Signature)    |
| Relinquished by: (Signature) | Date / Time | Received by: (Signature)                                  | Relinquished by: (Signature) | Date / Time   | Received by: (Signature)    |
| Relinquished by: (Signature) | Date / Time | Received for Laboratory by: (Signature) <i>Carol Rinn</i> | Date / Time                  | Remarks: Is custody seal intact? <input checked="" type="checkbox"/> Y/ <input type="checkbox"/> N/none | Case #: 27986<br>SDG: EDC60 |

Distribution: Blue - Region Copy, White - Lab Copy for Return to SMO, Pink - SMO Copy, Yellow - Lab Copy for Return to Region

See Reverse for Additional Standard Instructions  
\*\*See Reverse for Purpose Code Definitions

341529



**Organic Traffic Report**  
**Chain of Custody Record**  
(For Organic CLP Analysis)

SDG No. \_\_\_\_\_ Case No. \_\_\_\_\_

|   |  |  |                                     |  |  |
|---|--|--|-------------------------------------|--|--|
| <b>1. Matrix</b><br>(Enter in Column A)<br><br>1. Surface Water<br>2. Ground Water<br>3. Leachate<br>4. Field QC<br>5. Soil/Sediment<br>6. PE-water<br>7. PE-soil<br>8. Other (specify in Column A) | <b>2. Preservative</b><br>(Enter in Column D)<br><br>1. HCl<br>2. HNO3<br>3. NaHSO4<br>4. H2SO4<br>5. Ice only<br>6. CH3OH<br>7. Other (specify in Column D)<br>N. Not Preserved | 3. Region No. _____ Sampling Co. _____   | 5. Date Shipped _____ Carrier _____ | 7. Date Received--Received by<br>4-28-00 <i>Carla Pinn</i> |  |
|   |  | Sampler (Name) _____   |                                     | Airbill Number _____                                       | Laboratory Contract No. _____ Unit Price _____ |
|   |  | Sampler Signature _____  |                                     | 6. Ship To: _____  | 8. Transfer to: _____ Date Received _____      |
|   |  | 4 Purpose** Early Action Long Term Action<br>Lead <input type="checkbox"/> IA <input type="checkbox"/> <input type="checkbox"/> RIFS<br><input checked="" type="checkbox"/> SF <input type="checkbox"/> PA <input type="checkbox"/> <input type="checkbox"/> RD<br><input type="checkbox"/> PRP <input type="checkbox"/> REM <input type="checkbox"/> RA<br><input type="checkbox"/> ST <input type="checkbox"/> RI <input type="checkbox"/> O&M<br><input type="checkbox"/> FED <input type="checkbox"/> SI<br><input type="checkbox"/> BZ <input type="checkbox"/> ESI |                                     | ATTN: _____  |  |

| CLP Sample Numbers (from labels) | A Matrix (from Box 1) Other | B Conc. Low Med | C Sample Type: Comp / Grab | D Preservative (from Box 2) Other | E RAS Analysis  |                 |                 | F Regional Specific Tracking Number or Tag Numbers | G Station Location Identifier | H Mo/Day/Year/Time Sample Collection | I Corresponding CLP Inorganic Sample No. | J Sampler Initials | K Sample Condition |
|----------------------------------|-----------------------------|-----------------|----------------------------|-----------------------------------|-----------------|-----------------|-----------------|--|-------------------------------|--------------------------------------|--|--------------------|--------------------|
|                                  |                             |                 |                            |                                   | TA (circle one) | TA (circle one) | TA (circle one) |  |                               |                                      |  |                    |                    |
|                                  |                             |                 |                            |                                   | PR* 7 14 21     | PR* 7 14 21     | PR* 7 14 21     |  |                               |                                      |  |                    |                    |
|                                  |                             |                 |                            |                                   | VOA             | BNA             | Pest/PCB        |  |                               |                                      |  |                    |                    |
|                                  |                             |                 |                            |                                   |                 |                 |                 |  |                               |                                      |  |                    |                    |
|                                  |                             |                 |                            |                                   |                 |                 |                 |  |                               |                                      |  |                    |                    |
|                                  |                             |                 |                            |                                   |                 |                 |                 |  |                               |                                      |  |                    |                    |
|                                  |                             |                 |                            |                                   |                 |                 |                 |  |                               |                                      |  |                    |                    |
|                                  |                             |                 |                            |                                   |                 |                 |                 |  |                               |                                      |  |                    |                    |
|                                  |                             |                 |                            |                                   |                 |                 |                 |  |                               |                                      |  |                    |                    |
|                                  |                             |                 |                            |                                   |                 |                 |                 |  |                               |                                      |  |                    |                    |
|                                  |                             |                 |                            |                                   |                 |                 |                 |  |                               |                                      |  |                    |                    |

|                                   |                           |   |               |                               |                                 |
|-----------------------------------|---------------------------|---|---------------|-------------------------------|---------------------------------|
| Shipment for Case Complete? (Y/N) | Page <u>1</u> of <u>3</u> | VOA MS/MSD Required? Y/N Sample #:      | Y/N Sample #: | Additional Sampler Signatures | Chain of Custody Seal Number(s) |
|                                   |                           | BNA MS/MSD Required? Y/N Sample #:      | Y/N Sample #: |                               |                                 |
|                                   |                           | Pest/PCB MS/MSD Required? Y/N Sample #: | Y/N Sample #: |                               |                                 |

\*PR provides 7-day data turnaround in addition to preliminary results. Requests for preliminary results will increase analytical costs.

**Chain of Custody Record**

|                             |             |  |                             |   |                            |
|-----------------------------|-------------|--|-----------------------------|---|----------------------------|
| Relinquished by (Signature) | Date / Time | Received by (Signature)                | Relinquished by (Signature) | Date / Time                                 | Received by (Signature)    |
|                             |             |  |                             |   |                            |
| Relinquished by (Signature) | Date / Time | Received by (Signature)                | Relinquished by (Signature) | Date / Time                                 | Received by (Signature)    |
|                             |             |  |                             |   |                            |
| Relinquished by (Signature) | Date / Time | Received for Laboratory by (Signature) | Date / Time                 | Remarks: Is custody seal intact? (Y/N) none | Case # 27986<br>SDG: EDCGO |
|                             |             | <i>Carla Pinn</i>                      | 4-28-00 9:48                |   |                            |

Distribution Blue - Region Copy Pink - SMO Copy  
White - Lab Copy for Return to SMO Yellow - Lab Copy for Return to Region

See Reverse for Additional Standard Instructions  
\*\*See Reverse for Purpose Code Definitions



Organic Name Report  
& Chain of Custody Record  
(For Organic CLP Analysis)

USEPA

Case No.

1110

|   |  |   |                            |   |                         |   |  |                        |  |
|---|--|---|----------------------------|---|-------------------------|---|--|------------------------|--|
| <b>1. Matrix</b><br>(Enter in Column A)<br><br>1. Surface Water<br>2. Ground Water<br>3. Leachate<br>4. Field QC<br>5. Soil/Sediment<br>6. PE-water<br>7. PE-soil<br>8. Other (specify in Column A) | <b>2. Preservative</b><br>(Enter in Column D)<br><br>1. HCl<br>2. HNO3<br>3. NaHSO4<br>4. H2SO4<br>5. Ice only<br>6. CH3OH<br>7. Other (specify in Column D)<br>N. Not Preserved | <b>3. Region No</b><br>1110   | <b>Sampling Co.</b><br>SDG | <b>5. Date Shipped</b><br>4/28/00   | <b>Carrier</b><br>FedEx | <b>7. Date Received--Received by</b><br>4-28-00 Carlos Ruiz |  |                        |  |
|   |  | <b>Sampler (Name)</b><br>Carlos Ruiz  |                            | <b>Airbill Number</b><br>527951764509   |                         | <b>Laboratory Contract No</b><br>68-D7-0004                 | <b>Unit Price</b><br>525 <sup>x</sup> / <sub>100</sub> |                        |  |
|   |  | <b>Sampler Signature</b><br><i>[Signature]</i>  |                            | <b>6. Ship To:</b><br>Dept. Analytical Lab<br>1100 Pennsylvania Ave<br>Washington, DC 20560 |                         | <b>8. Transfer to:</b>                                      |  | <b>Date Received</b>   |  |
|   |  | <b>4- Purpose**</b><br>Lead <input type="checkbox"/> SF <input checked="" type="checkbox"/> PRP <input type="checkbox"/> ST <input type="checkbox"/> FED <input type="checkbox"/> BZ<br>Early Action <input type="checkbox"/> IA <input type="checkbox"/> PA <input type="checkbox"/> REM <input type="checkbox"/> RI <input type="checkbox"/> SI <input type="checkbox"/> ESI<br>Long Term Action <input type="checkbox"/> RIFS <input type="checkbox"/> RD <input type="checkbox"/> RA <input type="checkbox"/> O&M |                            | <b>ATTN:</b>  |                         | <b>Received by:</b>   |  | <b>Contract Number</b> |  |

| CLP Sample Numbers (from labels) | A Matrix (from Box 1) Other | B Conc Low Med | C Sample Type: Comp / Grab | D Preservative (from Box 2) Other | E RAS Analysis  |                 |                 | F Regional Specific Tracking Number or Tag Numbers | G Station Location Identifier | H Mo/Day/Year/Time Sample Collection | I Corresponding CLP Inorganic Sample No. | J Sampler Initials | K Sample Condition |
|----------------------------------|-----------------------------|----------------|----------------------------|-----------------------------------|-----------------|-----------------|-----------------|--|-------------------------------|--------------------------------------|--|--------------------|--------------------|
|                                  |                             |                |                            |                                   | TA (circle one) | TA (circle one) | TA (circle one) |  |                               |                                      |  |                    |                    |
|                                  |                             |                |                            |                                   | PR* 7 14 21     | PR* 7 14 21     | PR* 7 14 21     |  |                               |                                      |  |                    |                    |
|                                  |                             |                |                            |                                   | VOA             | BNA             | Pest/PCB        |  |                               |                                      |  |                    |                    |
|                                  |                             |                |                            |                                   |                 |                 |                 |  |                               |                                      |  |                    |                    |
|                                  |                             |                |                            |                                   |                 |                 |                 |  |                               |                                      |  |                    |                    |
|                                  |                             |                |                            |                                   |                 |                 |                 |  |                               |                                      |  |                    |                    |
|                                  |                             |                |                            |                                   |                 |                 |                 |  |                               |                                      |  |                    |                    |
|                                  |                             |                |                            |                                   |                 |                 |                 |  |                               |                                      |  |                    |                    |
|                                  |                             |                |                            |                                   |                 |                 |                 |  |                               |                                      |  |                    |                    |
|                                  |                             |                |                            |                                   |                 |                 |                 |  |                               |                                      |  |                    |                    |
|                                  |                             |                |                            |                                   |                 |                 |                 |  |                               |                                      |  |                    |                    |

|                                    |                           |                               |           |                               |                                 |
|------------------------------------|---------------------------|-------------------------------|-----------|-------------------------------|---------------------------------|
| Shipment for Case Complete? (Y/N): | Page <u>1</u> of <u>1</u> | VOA MS/MSD Required? Y/N      | Sample #: | Additional Sampler Signatures | Chain of Custody Seal Number(s) |
|                                    |                           | BNA MS/MSD Required? Y/N      | Sample #: |                               |                                 |
|                                    |                           | Pest/PCB MS/MSD Required? Y/N | Sample #: |                               |                                 |

\*PR provides 7-day data turnaround in addition to preliminary results. Requests for preliminary results will increase analytical costs.

Chain of Custody Record

|                              |             |   |                              |   |                             |
|------------------------------|-------------|---|------------------------------|---|-----------------------------|
| Relinquished by: (Signature) | Date / Time | Received by: (Signature)                | Relinquished by: (Signature) | Date / Time                               | Received by: (Signature)    |
| Relinquished by: (Signature) | Date / Time | Received by: (Signature)                | Relinquished by: (Signature) | Date / Time                               | Received by: (Signature)    |
| Relinquished by: (Signature) | Date / Time | Received for Laboratory by: (Signature) | Date / Time                  | Remarks: Is custody seal intact? Y/N/none | Case # 127986<br>SDG: EDC60 |

Distribution Blue - Region Copy  
White - Lab Copy for Return to SMO  
Pink - SMO Copy  
Yellow - Lab Copy for Return to Region

See Reverse for Additional Standard Instructions  
\*\*See Reverse for Purpose Code Definitions



### Organic Traffic Report & Chain of Custody Record (for Organic CLP Analysis)

SDG No. \_\_\_\_\_ Case No. \_\_\_\_\_

|   |  |   |                                     |  |  |                                   |
|---|--|---|-------------------------------------|--|--|-----------------------------------|
| <b>1. Matrix</b><br>(Enter in Column A)<br><br>1. Surface Water<br>2. Ground Water<br>3. Leachate<br>4. Field QC<br>5. Soil/Sediment<br>6. PE-water<br>7. PE-soil<br>8. Other (specify in Column A) | <b>2. Preservative</b><br>(Enter in Column D)<br><br>1. HCl<br>2. HNO3<br>3. NaHSO4<br>4. H2SO4<br>5. Ice only<br>6. CH3OH<br>7. Other (specify in Column D)<br>N. Not Preserved | 3. Region No. _____ Sampling Co. _____  | 5. Date Shipped _____ Carrier _____ | 7. Date Received--Received by:<br>4-28-00 Carlos Pizarro |  |                                   |
|   |  | Sampler (Name) _____  |                                     | Airbill Number _____                                     | Laboratory Contract No. _____ Unit Price _____ |                                   |
|   |  | Sampler Signature _____   |                                     | 6. Ship To: _____<br>ATTN: _____                         | 8. Transfer to: _____                          | Date Received _____               |
|   |  | 4. Purpose**<br>Lead <input type="checkbox"/> SF <input type="checkbox"/> PRP <input type="checkbox"/> ST <input type="checkbox"/> FED <input type="checkbox"/> BZ<br>Early Action <input type="checkbox"/> IA <input type="checkbox"/> PA <input type="checkbox"/> REM <input type="checkbox"/> RI <input type="checkbox"/> SI <input type="checkbox"/> ESI<br>Long Term Action <input type="checkbox"/> RIFS <input type="checkbox"/> RD <input type="checkbox"/> RA <input type="checkbox"/> O&M |                                     |  | Received by: _____                             | Contract Number _____ Price _____ |

| CLP Sample Numbers (from labels) | A Matrix (from Box 1) Other | B Conc Low Med | C Sample Type: Comp/Grab | D Preservative (from Box 2) Other | E RAS Analysis  |                 |                 | F Regional Specific Tracking Number or Tag Numbers | G Station Location Identifier | H Mo/Day/Year/Time Sample Collection | I Corresponding CLP Inorganic Sample No. | J Sampler Initials | K Sample Condition |
|----------------------------------|-----------------------------|----------------|--------------------------|-----------------------------------|-----------------|-----------------|-----------------|--|-------------------------------|--------------------------------------|--|--------------------|--------------------|
|                                  |                             |                |                          |                                   | TA (circle one) | TA (circle one) | TA (circle one) |  |                               |                                      |  |                    |                    |
|                                  |                             |                |                          |                                   | PR* 7 14 21     | PR* 7 14 21     | PR* 7 14 21     |  |                               |                                      |  |                    |                    |
|                                  |                             |                |                          |                                   | X               |                 |                 |  |                               |                                      |  |                    |                    |
|                                  |                             |                |                          |                                   |                 |                 |                 |  |                               |                                      |  |                    |                    |
|                                  |                             |                |                          |                                   | X               |                 |                 |  |                               |                                      |  |                    |                    |
|                                  |                             |                |                          |                                   |                 |                 |                 |  |                               |                                      |  |                    |                    |
|                                  |                             |                |                          |                                   |                 |                 |                 |  |                               |                                      |  |                    |                    |
|                                  |                             |                |                          |                                   | X               |                 |                 |  |                               |                                      |  |                    |                    |
|                                  |                             |                |                          |                                   |                 | X               |                 |  |                               |                                      |  |                    |                    |
|                                  |                             |                |                          |                                   | X               |                 |                 |  |                               |                                      |  |                    |                    |
|                                  |                             |                |                          |                                   |                 | X               |                 |  |                               |                                      |  |                    |                    |
|                                  |                             |                |                          |                                   |                 |                 |                 |  |                               |                                      |  |                    |                    |

|                                   |                     |                               |                 |                               |                                 |
|-----------------------------------|---------------------|-------------------------------|-----------------|-------------------------------|---------------------------------|
| Shipment for Case Complete? (Y/N) | Page _____ of _____ | VOA MS/MSD Required? Y/N      | Sample #: _____ | Additional Sampler Signatures | Chain of Custody Seal Number(s) |
|                                   |                     | BNA MS/MSD Required? Y/N      | Sample #: _____ |                               |                                 |
|                                   |                     | Pest/PCB MS/MSD Required? Y/N | Sample #: _____ |                               |                                 |

\*PR provides 7-day data turnaround in addition to preliminary results. Requests for preliminary results will increase analytical costs.

### Chain of Custody Record

|                              |             |   |                              |   |                           |
|------------------------------|-------------|---|------------------------------|---|---------------------------|
| Relinquished by: (Signature) | Date / Time | Received by: (Signature)                | Relinquished by: (Signature) | Date / Time   | Received by: (Signature)  |
| Relinquished by: (Signature) | Date / Time | Received by: (Signature)                | Relinquished by: (Signature) | Date / Time   | Received by: (Signature)  |
| Relinquished by: (Signature) | Date / Time | Received for Laboratory by: (Signature) | Date / Time                  | Remarks: Is custody seal intact? <input checked="" type="checkbox"/> Y/N/none | Case: 27986<br>SDG: EDCGO |

201172



United States Environmental Protection Agency  
Contract Laboratory Program

### Organic Traffic Report & Chain of Custody Record (For Organic CLP Analysis)

SDG No.

Case No.

|   |  |   |                            |                                       |                       |  |                             |
|---|--|---|----------------------------|---------------------------------------|-----------------------|--|-----------------------------|
| <b>1. Matrix</b><br>(Enter in Column A)<br><br>1. Surface Water<br>2. Ground Water<br>3. Leachate<br>4. Field QC<br>5. Soil/Sediment<br>6. PE-water<br>7. PE-soil<br>8. Other (specify in Column A) | <b>2. Preservative</b><br>(Enter in Column D)<br><br>1. HCl<br>2. HNO3<br>3. NaHSO4<br>4. H2SO4<br>5. Ice only<br>6. CH3OH<br>7. Other (specify in Column D)<br>N. Not Preserved | <b>3. Region No</b><br>1  | <b>Sampling Co.</b><br>... | <b>5. Date Shipped</b><br>4/29/00     | <b>Carrier</b><br>... | <b>7. Date Received-Received by:</b><br>4-29-00 <i>Carbor Pinn</i> |                             |
|   |  | <b>Sampler (Name)</b><br>...  |                            | <b>Airbill Number</b><br>820134804961 |                       | <b>Laboratory Contract No</b><br>68-D7-0004                        | <b>Unit Price</b><br>525.00 |
|   |  | <b>Sampler Signature</b><br><i>[Signature]</i>  |                            | <b>6. Ship To:</b><br>...             |                       | <b>8. Transfer to:</b><br>Date Received                            |                             |
|   |  | <b>4. Purpose**</b><br>Lead <input type="checkbox"/> SF <input type="checkbox"/> PRP <input type="checkbox"/> ST <input type="checkbox"/> FED <input type="checkbox"/> BZ<br>Early Action <input type="checkbox"/> IA <input type="checkbox"/> PA <input type="checkbox"/> REM <input type="checkbox"/> RI <input type="checkbox"/> SI <input type="checkbox"/> ESI<br>Long Term Action <input type="checkbox"/> RIFS <input checked="" type="checkbox"/> RD <input type="checkbox"/> RA <input type="checkbox"/> O&M |                            | <b>ATTN:</b> ...                      |                       | <b>Received by:</b><br>Contract Number Price                       |                             |

| CLP Sample Numbers (from labels) | A Matrx (from Box 1) Other | B Conc Low Med | C Sample Type Comp Grab | D Preservative (from Box 2) Other | E RAS Analysis  |                 |                 | F Regional Specific Tracking Number or Tag Numbers | G Station Location Identifier | H Mo/Day/Year/Time Sample Collection | I Corresponding CLP Inorganic Sample No. | J Sampler Initials | K Sample Condition |
|----------------------------------|----------------------------|----------------|-------------------------|-----------------------------------|-----------------|-----------------|-----------------|--|-------------------------------|--------------------------------------|--|--------------------|--------------------|
|                                  |                            |                |                         |                                   | TA (circle one) | TA (circle one) | TA (circle one) |  |                               |                                      |  |                    |                    |
|                                  |                            |                |                         |                                   | PR* 7 14 21     | PR* 7 14 21     | PR* 7 14 21     |  |                               |                                      |  |                    |                    |
| ...                              | ...                        | ...            | ...                     | ...                               | VOA             | BNA             | Pest/PCB        | ...  | ...                           | ...                                  | ...                                      | ...                | ...                |
| ...                              | ...                        | ...            | ...                     | ...                               | X               | -               | -               | ...  | ...                           | ...                                  | ...                                      | ...                | ...                |
| ...                              | ...                        | ...            | ...                     | ...                               | Y               | -               | -               | ...  | ...                           | ...                                  | ...                                      | ...                | ...                |
| ...                              | ...                        | ...            | ...                     | ...                               | X               | -               | -               | ...  | ...                           | ...                                  | ...                                      | ...                | ...                |
| ...                              | ...                        | ...            | ...                     | ...                               | -               | X               | -               | ...  | ...                           | ...                                  | ...                                      | ...                | ...                |

|  |                |  |                                      |  |
|--|----------------|--|--------------------------------------|--|
| <b>Shipment for Case Complete? (Y/N)</b> | <b>Page of</b> | <b>VOA MS/MSD Required? Y/N</b> / Sample #:      | <b>Additional Sampler Signatures</b> | <b>Chain of Custody Seal Number(s)</b> |
|  |                | <b>BNA MS/MSD Required? Y/N</b> / Sample #:      |                                      |  |
|  |                | <b>Pest/PCB MS/MSD Required? Y/N</b> / Sample #: |                                      |  |

\*PR provides 7-day data turnaround in addition to preliminary results. Requests for preliminary results will increase analytical costs.

### Chain of Custody Record

|                              |             |   |                              |  |                           |
|------------------------------|-------------|---|------------------------------|--|---------------------------|
| Relinquished by: (Signature) | Date / Time | Received by: (Signature)                | Relinquished by: (Signature) | Date / Time  | Received by: (Signature)  |
| Relinquished by: (Signature) | Date / Time | Received by: (Signature)                | Relinquished by: (Signature) | Date / Time  | Received by: (Signature)  |
| Relinquished by: (Signature) | Date / Time | Received for Laboratory by: (Signature) | Date / Time                  | Remarks: Is custody seal intact? <input checked="" type="checkbox"/> Y / <input type="checkbox"/> N / none | Case: 27486<br>SDG: EDCGO |

Distribution Blue - Region Copy  
White - Lab Copy for Return to SMO  
Pink - SMO Copy  
Yellow - Lab Copy for Return to Region

See Reverse for Additional Standard Instructions  
\*\*See Reverse for Purpose Code Def

## PDP ANALYTICAL SERVICES

1680 Lake Front Circle, Suite B • The Woodlands, TX 77380 • Phone (281)363-2233

|                         |                |               |
|-------------------------|----------------|---------------|
| Contract No. 68-D7-0004 | Case No. 27986 | SDG No. EDCG0 |
|-------------------------|----------------|---------------|

### SDG NARRATIVE

**MAY 23 2000**

#### SAMPLE RECEIPT :

04/28/00 @ 09:48 A.M. - Received two shipments consisting of two coolers: Cooler 1 temperature : 4°C. Cooler 2 temperature : 3°C. (COC391529, COC391561, COC391574, COC391573) contained the following:

EDCG0 - 2-1L amber, 3-40mL Voa Vials.  
EDCH0 - 2-40mL Voa Vials.  
EDCG2 - 2-1L amber, 3-40mL Voa Vials.  
EDCG4 - 2-1L amber, 3-40mL Voa Vials.  
EDCG5 - 2-1L amber, 3-40mL Voa Vials.  
EDCG6 - 2-1L amber, 3-40mL Voa Vials.  
EDCG7 - 2-1L amber, 3-40mL Voa Vials.  
E0057 - 2-1L amber, 3-40mL Voa Vials.  
EDCG8 - 2-1L amber, 3-40mL Voa Vials.  
EDCG9 - 2-1L amber, 3-40mL Voa Vials.  
E00F8 - 2-1L amber, 3-40mL Voa Vials.  
E00F9 - 2-1L amber, 3-40mL Voa Vials.  
E00FA - 2-1L amber, 3-40mL Voa Vials.

E0057 was labeled on containers as E00F7.

No other problems were encountered during sample receipt.

04/29/00 @ 09:14 A.M. - Received one shipment consisting of two coolers: Cooler 1 temperature : 4°C. Cooler 2 temperature : 4°C. (COC391531) contained the following:

E00FB - 2-1L amber, 3-40mL Voa Vials.  
E00FD - 2-40mL Voa Vials.  
E00FC - 2-1L amber, 3-40mL Voa Vials.  
E00FE - 2-1L amber, 3-40mL Voa Vials.

No other problems were encountered during sample receipt.

#### VOLATILES:

All samples were analyzed on a HP 5973 GC/MS using a 60 meters long DB-624 column having a 0.53mm ID and 0.1µm film thickness. The trap used was a OV-1/Tenax/Silica Gel (Tekmar #6. Cat 14-1755-003) . A 20 mL purge time was used for all samples, blanks and standards. The concentrations of the standards and spikes were maintained at the levels required by the Statement of Work (SOW).

The following field samples are analyzed for volatiles in this SDG. The pH of the samples is listed against them.

## PDP ANALYTICAL SERVICES

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Contract No. 68-D7-0004

Case No. 27986

SDG No. EDCG0

### SDG NARRATIVE

|       |     |       |     |
|-------|-----|-------|-----|
| EDCG0 | 2.0 | E00F8 | 2.0 |
| EDCG2 | 2.0 | E0057 | 2.0 |
| EDCG4 | 2.0 | E00F9 | 2.0 |
| EDCG5 | 2.0 | E00FA | 2.0 |
| EDCG6 | 2.0 | E00FB | 2.0 |
| EDCG7 | 2.0 | E00FD | 2.0 |
| EDCG8 | 2.0 | E00FC | 2.0 |
| EDCG9 | 2.0 | E00FE | 2.0 |
| EDCH0 | 2.0 |       |     |

Manual integration's were performed for the following samples for the compounds listed against them.

VSTD00160 – Chloromethane, Vinyl Chloride, Bromomethane, Chloroethane, 1,1-Dichloroethene, Carbon Disulfide, Acetone, Methylene Chloride, cis-1,2-Dichloroethene, 1,2-Dichloroethane, 1,1,1-Trichloroethane, Carbon Tetrachloride, 1,1,2-Trichloroethane, 1,2-Dibromo-3-chloropropane.

VSTD00260 – Chloromethane, Vinyl Chloride, Bromomethane, Chloroethane, 1,1-Dichloroethene, Carbon Disulfide, Acetone, Methylene Chloride, 1,1,1-Trichloroethane, Carbon Tetrachloride, 1,2-Dibromo-3-chloropropane.

VSTD00560 – Chloromethane, Vinyl Chloride, Bromomethane, Chloroethane, 1,1-Dichloroethene, Carbon Disulfide, Acetone, Methylene Chloride, Bromochloromethane, 1,1,1-Trichloroethane, Carbon Tetrachloride, 1,2-Dibromo-3-chloropropane.

VSTD01060 – Chloromethane, Vinyl Chloride, Bromomethane, Chloroethane, 1,1-Dichloroethene, Carbon Disulfide, Acetone, Methylene Chloride, 1,1,1-Trichloroethane, Carbon Tetrachloride, 1,2-Dibromo-3-chloropropane.

VSTD02560 – Chloromethane, Vinyl Chloride, Bromomethane, Chloroethane, 1,1-Dichloroethene, Carbon Disulfide, Methylene Chloride, 1,1,1-Trichloroethane, 1,2-Dibromo-3-chloropropane.

VSTD00566 – Chloromethane, Vinyl Chloride, Bromomethane, Chloroethane, 1,1-Dichloroethene, Carbon Disulfide, Acetone, Methylene Chloride, Carbon Tetrachloride, 1,2-Dibromo-3-chloropropane.

VSTD00567 – Chloromethane, Vinyl Chloride, Bromomethane, Chloroethane, 1,1-Dichloroethene, Carbon Disulfide, Acetone, 1,1,1-Trichloroethane, Carbon Tetrachloride, 1,2-Dibromo-3-chloropropane.

VLCS96 – Vinyl Chloride.

VLCS97 – Vinyl Chloride.

E0057 – Methylene Chloride.

E00FD – Methylene Chloride.

EDCH0 – Carbon disulfide, Acetone, Methylene Chloride.

These manual integration's were necessary because the software failed to accurately integrate the entire peak. In all the above instances, the quantitation reports are flagged with "m". A hard copy printout of the manual integration's along with the scan ranges and initials of the operator is included in the data package.

For those target compounds with low signals that required a manual search for the initial calibration, the analysts has performed the same manual search for every sample analysis to ensure that false negative results are not

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|                         |                |               |
|-------------------------|----------------|---------------|
| Contract No. 68-D7-0004 | Case No. 27986 | SDG No. EDCG0 |
|-------------------------|----------------|---------------|

### SDG NARRATIVE

reported. All peaks in the calibration standards, samples and QC samples are checked manually to ensure that the software has correctly identified and integrated the peaks.

No problems were encountered during sample analysis.

#### SEMIVOLATILES:

The following samples were extracted using continuous liquid/liquid extraction method on 05/03/00

EDCG0, EDCG2, EDCG4, EDCG5, EDCG6, EDCG7, EDCG8, EDCG9, E00F8, E00F9, E00FA, E00FB, E00FC, E00FE

All samples were analyzed on a HP 5971A GC/MS using a 30 meters long and 0.25mm ID DB-5 column . A 2uL injection was used.

Manual integration's were performed for the following samples for the compounds listed against them.

SSTD00502 – Indeno(1,2,3-cd)pyrene.

SSTD01002 – Indeno(1,2,3-cd)pyrene.

SSTD02002 – Indeno(1,2,3-cd)pyrene.

SSTD05002 – Indeno(1,2,3-cd)pyrene.

SSTD08002 – Benzo(b)fluoranthene, Benzo(k)fluoranthene, Indeno(1,2,3-cd)pyrene.

SSTD02009 – 2,2'-oxybis(1-Chloropropane).

SSTD02010 – 2,2'-oxybis(1-Chloropropane), 4-Chloroaniline, Indeno(1,2,3-cd)pyrene.

These manual integration's were necessary because the software failed to accurately integrate the entire peak. In all the above instances, the quantitation reports are flagged with "m". A hard copy printout of the manual integration's along with the scan ranges and initials of the operator is included in the data package .

For those target compounds with low signals that required a manual search for the initial calibration, the analysts has performed the same manual search for every sample analysis to ensure that false negative results are not reported. All peaks in the calibration standards, samples and QC samples are checked manually to ensure that the software has correctly identified and integrated the peaks.

No problems were encountered during sample extraction and sample analysis.



*I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature:*

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|                         |                |               |
|-------------------------|----------------|---------------|
| Contract No. 68-D7-0004 | Case No. 27986 | SDG No. EDCG0 |
|-------------------------|----------------|---------------|

**SDG NARRATIVE**

Elizabeth Paricio / DC Coordinator  
Signature and Title

5/19/00  
Date of Signature

2LCA  
 LOW CONC. WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: EDCG0

|    | EPA<br>SAMPLE NO. | BFB<br>%REC # | OTHER | TOT<br>OUT |
|----|-------------------|---------------|-------|------------|
| 01 | VBLK96            | 108           |       | 0          |
| 02 | VLCS96            | 111           |       | 0          |
| 03 | EDCG0             | 110           |       | 0          |
| 04 | EDCG2             | 109           |       | 0          |
| 05 | EDCG4             | 112           |       | 0          |
| 06 | EDCG5             | 114           |       | 0          |
| 07 | EDCG6             | 112           |       | 0          |
| 08 | EDCG7             | 112           |       | 0          |
| 09 | EDCG8             | 111           |       | 0          |
| 10 | EDCG9             | 113           |       | 0          |
| 11 | EDCH0             | 115           |       | 0          |
| 12 | E00F8             | 114           |       | 0          |
| 13 | E0057             | 113           |       | 0          |
| 14 | E00F9             | 115           |       | 0          |
| 15 | VBLK97            | 108           |       | 0          |
| 16 | VLCS97            | 106           |       | 0          |
| 17 | E00FA             | 108           |       | 0          |
| 18 | E00FB             | 108           |       | 0          |
| 19 | E00FD             | 110           |       | 0          |
| 20 | E00FC             | 108           |       | 0          |
| 21 | VIBLK01           | 108           |       | 0          |
| 22 | E00FE             | 111           |       | 0          |
| 23 | VHBLK01           | 109           |       | 0          |
| 24 |                   |               |       |            |
| 25 |                   |               |       |            |
| 26 |                   |               |       |            |
| 27 |                   |               |       |            |
| 28 |                   |               |       |            |
| 29 |                   |               |       |            |
| 30 |                   |               |       |            |

QC LIMITS  
 %REC

BFB = Bromofluorobenzene (80-120)

# Column to be used to flag recovery values  
 \* Values outside of contract required QC limits

3LCA  
 LOW CONC. WATER VOLATILE LAB CONTROL SAMPLE RECOVERY

EPA SAMPLE NO.

VLCS96

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004  
 Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: EDCG0  
 Lab Sample ID: GVLCS060      LCS Lot No.: 60  
 Lab File ID: G0925      Date Analyzed: 05/01/00  
 Purge Volume: 20.0 (mL)      Dilution Factor: 1.0  
 LCS Aliquot: 10.0 (uL)

| COMPOUND                | AMOUNT<br>ADDED<br>(ng) | AMOUNT<br>RECOVERED<br>(ng) | %REC # | QC<br>LIMITS |
|-------------------------|-------------------------|-----------------------------|--------|--------------|
| Vinyl chloride          | 100                     | 81                          | 81     | 60-140       |
| 1,2-Dichloroethane      | 100                     | 104                         | 104    | 60-140       |
| Carbon tetrachloride    | 100                     | 90                          | 90     | 60-140       |
| 1,2-Dichloropropane     | 100                     | 93                          | 93     | 60-140       |
| Trichloroethene         | 100                     | 94                          | 94     | 60-140       |
| 1,1,2-Trichloroethane   | 100                     | 90                          | 90     | 60-140       |
| Benzene                 | 100                     | 95                          | 95     | 60-140       |
| cis-1,3-Dichloropropene | 100                     | 90                          | 90     | 60-140       |
| Bromoform               | 100                     | 85                          | 85     | 60-140       |
| Tetrachloroethene       | 100                     | 87                          | 87     | 60-140       |
| 1,2-Dibromoethane       | 100                     | 81                          | 81     | 60-140       |
| 1,4-Dichlorobenzene     | 100                     | 77                          | 77     | 60-140       |

# Column to be used to flag LCS recovery with an asterisk.

\* Values outside of QC limits.

LCS Recovery: 0 outside limits out of 12 total.

COMMENTS: \_\_\_\_\_  
 \_\_\_\_\_

3LCA  
 LOW CONC. WATER VOLATILE LAB CONTROL SAMPLE RECOVERY

EPA SAMPLE NO.

VLCS97

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004

Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: EDCG0

Lab Sample ID: GVLCS061      LCS Lot No.: 60

Lab File ID: G0942      Date Analyzed: 05/02/00

Purge Volume: 20.0 (mL)      Dilution Factor: 1.0

LCS Aliquot: 10.0 (uL)

| COMPOUND                | AMOUNT<br>ADDED<br>(ng) | AMOUNT<br>RECOVERED<br>(ng) | %REC # | QC<br>LIMITS |
|-------------------------|-------------------------|-----------------------------|--------|--------------|
| Vinyl chloride          | 100                     | 80                          | 80     | 60-140       |
| 1,2-Dichloroethane      | 100                     | 97                          | 97     | 60-140       |
| Carbon tetrachloride    | 100                     | 86                          | 86     | 60-140       |
| 1,2-Dichloropropane     | 100                     | 87                          | 87     | 60-140       |
| Trichloroethene         | 100                     | 88                          | 88     | 60-140       |
| 1,1,2-Trichloroethane   | 100                     | 85                          | 85     | 60-140       |
| Benzene                 | 100                     | 94                          | 94     | 60-140       |
| cis-1,3-Dichloropropene | 100                     | 82                          | 82     | 60-140       |
| Bromoform               | 100                     | 71                          | 71     | 60-140       |
| Tetrachloroethene       | 100                     | 84                          | 84     | 60-140       |
| 1,2-Dibromoethane       | 100                     | 74                          | 74     | 60-140       |
| 1,4-Dichlorobenzene     | 100                     | 69                          | 69     | 60-140       |

# Column to be used to flag LCS recovery with an asterisk.

\* Values outside of QC limits.

LCS Recovery: 0 outside limits out of 12 total.

COMMENTS: \_\_\_\_\_  
 \_\_\_\_\_

4LCA  
 LOW CONC. WATER VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBK96

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: EDCG0

Lab Sample ID: GVBLK060

Date Analyzed: 05/01/00

Lab File ID: G0924

Time Analyzed: 1115

Instrument ID: G-HP5973

GC Column: DB-624

ID: 0.53 (mm) Length: 60 (m)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND LCS:

|    | EPA<br>SAMPLE NO. | LAB<br>SAMPLE ID | LAB<br>FILE ID | TIME<br>ANALYZED |
|----|-------------------|------------------|----------------|------------------|
| 01 | VLCS96            | GVLCS060         | G0925          | 1203             |
| 02 | EDCG0             | 6040.002         | G0926          | 1251             |
| 03 | EDCG2             | 6040.004         | G0927          | 1338             |
| 04 | EDCG4             | 6040.005         | G0928          | 1426             |
| 05 | EDCG5             | 6040.006         | G0929          | 1513             |
| 06 | EDCG6             | 6040.007         | G0930          | 1601             |
| 07 | EDCG7             | 6040.008         | G0931          | 1648             |
| 08 | EDCG8             | 6040.010         | G0932          | 1735             |
| 09 | EDCG9             | 6040.011         | G0933          | 1823             |
| 10 | EDCH0             | 6040.003         | G0934          | 1911             |
| 11 | E00F8             | 6040.012         | G0935          | 1958             |
| 12 | E0057             | 6040.009         | G0936          | 2046             |
| 13 | E00F9             | 6040.013         | G0937          | 2133             |
| 14 |                   |                  |                |                  |
| 15 |                   |                  |                |                  |
| 16 |                   |                  |                |                  |
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| 29 |                   |                  |                |                  |
| 30 |                   |                  |                |                  |

COMMENTS:

\_\_\_\_\_



COMMENTS:

| EPA<br>SAMPLE NO. | LAB<br>SAMPLE ID | LAB<br>FILE ID | TIME<br>ANALYZED |
|-------------------|------------------|----------------|------------------|
| 01                | VLCS97           | G942           | 0114             |
| 02                | E00FA            | G0943          | 0201             |
| 03                | E00FB            | G0945          | 0334             |
| 04                | E00FD            | G0946          | 0420             |
| 05                | E00FC            | G0947          | 0507             |
| 06                | VIBLK01          | G0948          | 0553             |
| 07                | E00FE            | G0949          | 0639             |
| 08                | VHBLK01          | G0950          | 0725             |
| 09                |                  |                |                  |
| 10                |                  |                |                  |
| 11                |                  |                |                  |
| 12                |                  |                |                  |
| 13                |                  |                |                  |
| 14                |                  |                |                  |
| 15                |                  |                |                  |
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| 25                |                  |                |                  |
| 26                |                  |                |                  |
| 27                |                  |                |                  |
| 28                |                  |                |                  |
| 29                |                  |                |                  |
| 30                |                  |                |                  |

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND LCS:

GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

Instrument ID: G-HP5973

Lab File ID: G0941

Time Analyzed: 0028

Lab Sample ID: GVBLK061

Date Analyzed: 05/02/00

Lab Code: PDF Case No.: 27986 SAS No.: SDG No.: EDCG0

Lab Name: PDF ANALYTICAL SERVICES Contract: 68-D7-0004

VBLK97

4LCA LOW CONC. WATER VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

1LCA  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK96

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: EDCG0

Lab Sample ID: GVBLK060

Date Received: \_\_\_\_\_

Lab File ID: G0924

Date Analyzed: 05/01/00

Purge Volume: 20 (mL)

Dilution Factor: 1.0

GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

| CAS NO.    | COMPOUND                    | CONCENTRATION<br>(ug/L) | Q |
|------------|-----------------------------|-------------------------|---|
| 74-87-3    | Chloromethane               | 1                       | U |
| 74-83-9    | Bromomethane                | 1                       | U |
| 75-01-4    | Vinyl chloride              | 1                       | U |
| 75-00-3    | Chloroethane                | 1                       | U |
| 75-09-2    | Methylene chloride          | 2                       | U |
| 67-64-1    | Acetone                     | 5                       | U |
| 75-15-0    | Carbon disulfide            | 1                       | U |
| 75-35-4    | 1,1-Dichloroethene          | 1                       | U |
| 75-34-3    | 1,1-Dichloroethane          | 1                       | U |
| 156-59-2   | cis-1,2-Dichloroethene      | 1                       | U |
| 156-60-5   | trans-1,2-Dichloroethene    | 1                       | U |
| 67-66-3    | Chloroform                  | 1                       | U |
| 107-06-2   | 1,2-Dichloroethane          | 1                       | U |
| 78-93-3    | 2-Butanone                  | 5                       | U |
| 74-97-5    | Bromochloromethane          | 1                       | U |
| 71-55-6    | 1,1,1-Trichloroethane       | 1                       | U |
| 56-23-5    | Carbon tetrachloride        | 1                       | U |
| 75-27-4    | Bromodichloromethane        | 1                       | U |
| 78-87-5    | 1,2-Dichloropropane         | 1                       | U |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1                       | U |
| 79-01-6    | Trichloroethene             | 1                       | U |
| 124-48-1   | Dibromochloromethane        | 1                       | U |
| 79-00-5    | 1,1,2-Trichloroethane       | 1                       | U |
| 71-43-2    | Benzene                     | 1                       | U |
| 10061-02-6 | trans-1,3-Dichloropropene   | 1                       | U |
| 75-25-2    | Bromoform                   | 1                       | U |
| 108-10-1   | 4-Methyl-2-pentanone        | 5                       | U |
| 591-78-6   | 2-Hexanone                  | 5                       | U |
| 127-18-4   | Tetrachloroethene           | 1                       | U |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 1                       | U |
| 106-93-4   | 1,2-Dibromoethane           | 1                       | U |
| 108-88-3   | Toluene                     | 1                       | U |
| 108-90-7   | Chlorobenzene               | 1                       | U |
| 100-41-4   | Ethylbenzene                | 1                       | U |
| 100-42-5   | Styrene                     | 1                       | U |
| 1330-20-7  | Xylenes (total)             | 1                       | U |
| 541-73-1   | 1,3-Dichlorobenzene         | 1                       | U |
| 106-46-7   | 1,4-Dichlorobenzene         | 1                       | U |
| 95-50-1    | 1,2-Dichlorobenzene         | 1                       | U |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | 1                       | U |
| 120-82-1   | 1,2,4-Trichlorobenzene      | 1                       | U |

1LCE  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK96

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004

Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: EDCG0

Lab Sample ID: GVBLK060      Date Received: \_\_\_\_\_

Lab File ID: G0924      Date Analyzed: 05/01/00

Purge Volume: 20 (mL)      Dilution Factor: 1.0

GC Column: DB-624      ID: 0.53 (mm) Length: 60 (m)

Number TICs found: 0

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC.<br>(ug/L) | Q |
|------------|---------------|----|----------------------|---|
| 1.         |               |    |                      |   |
| 2.         |               |    |                      |   |
| 3.         |               |    |                      |   |
| 4.         |               |    |                      |   |
| 5.         |               |    |                      |   |
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| 29.        |               |    |                      |   |
| 30.        |               |    |                      |   |

1LCA  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK97

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: EDCG0

Lab Sample ID: GVBLK061

Date Received: \_\_\_\_\_

Lab File ID: G0941

Date Analyzed: 05/02/00

Purge Volume: 20 (mL)

Dilution Factor: 1.0

GC Column: DB-624

ID: 0.53 (mm) Length: 60 (m)

| CAS NO.    | COMPOUND                    | CONCENTRATION (ug/L) | Q |
|------------|-----------------------------|----------------------|---|
| 74-87-3    | Chloromethane               | 1                    | U |
| 74-83-9    | Bromomethane                | 1                    | U |
| 75-01-4    | Vinyl chloride              | 1                    | U |
| 75-00-3    | Chloroethane                | 1                    | U |
| 75-09-2    | Methylene chloride          | 2                    | U |
| 67-64-1    | Acetone                     | 5                    | U |
| 75-15-0    | Carbon disulfide            | 1                    | U |
| 75-35-4    | 1,1-Dichloroethene          | 1                    | U |
| 75-34-3    | 1,1-Dichloroethane          | 1                    | U |
| 156-59-2   | cis-1,2-Dichloroethene      | 1                    | U |
| 156-60-5   | trans-1,2-Dichloroethene    | 1                    | U |
| 67-66-3    | Chloroform                  | 1                    | U |
| 107-06-2   | 1,2-Dichloroethane          | 1                    | U |
| 78-93-3    | 2-Butanone                  | 5                    | U |
| 74-97-5    | Bromochloromethane          | 1                    | U |
| 71-55-6    | 1,1,1-Trichloroethane       | 1                    | U |
| 56-23-5    | Carbon tetrachloride        | 1                    | U |
| 75-27-4    | Bromodichloromethane        | 1                    | U |
| 78-87-5    | 1,2-Dichloropropane         | 1                    | U |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1                    | U |
| 79-01-6    | Trichloroethene             | 1                    | U |
| 124-48-1   | Dibromochloromethane        | 1                    | U |
| 79-00-5    | 1,1,2-Trichloroethane       | 1                    | U |
| 71-43-2    | Benzene                     | 1                    | U |
| 10061-02-6 | trans-1,3-Dichloropropene   | 1                    | U |
| 75-25-2    | Bromoform                   | 1                    | U |
| 108-10-1   | 4-Methyl-2-pentanone        | 5                    | U |
| 591-78-6   | 2-Hexanone                  | 5                    | U |
| 127-18-4   | Tetrachloroethene           | 1                    | U |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 1                    | U |
| 106-93-4   | 1,2-Dibromoethane           | 1                    | U |
| 108-88-3   | Toluene                     | 1                    | U |
| 108-90-7   | Chlorobenzene               | 1                    | U |
| 100-41-4   | Ethylbenzene                | 1                    | U |
| 100-42-5   | Styrene                     | 1                    | U |
| 1330-20-7  | Xylenes (total)             | 1                    | U |
| 541-73-1   | 1,3-Dichlorobenzene         | 1                    | U |
| 106-46-7   | 1,4-Dichlorobenzene         | 1                    | U |
| 95-50-1    | 1,2-Dichlorobenzene         | 1                    | U |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | 1                    | U |
| 120-82-1   | 1,2,4-Trichlorobenzene      | 1                    | U |

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 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK97

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004

Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: EDCG0

Lab Sample ID: GVBLK061      Date Received: \_\_\_\_\_

Lab File ID: G0941      Date Analyzed: 05/02/00

Purge Volume: 20 (mL)      Dilution Factor: 1.0

GC Column: DB-624      ID: 0.53 (mm) Length: 60 (m)

Number TICs found: 0

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC.<br>(ug/L) | Q |
|------------|---------------|----|----------------------|---|
| 1.         |               |    |                      |   |
| 2.         |               |    |                      |   |
| 3.         |               |    |                      |   |
| 4.         |               |    |                      |   |
| 5.         |               |    |                      |   |
| 6.         |               |    |                      |   |
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| 28.        |               |    |                      |   |
| 29.        |               |    |                      |   |
| 30.        |               |    |                      |   |

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 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VHBLK01

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004  
 Lab Code: PDP Case No.: 27986 SAS No.: \_\_\_\_\_ SDG No.: EDCGO  
 Lab Sample ID: 6040.001 Date Received: 04/28/00  
 Lab File ID: G0950 Date Analyzed: 05/02/00  
 Purge Volume: 20 (mL) Dilution Factor: 1.0  
 GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

| CAS NO.    | COMPOUND                    | CONCENTRATION<br>(ug/L) | Q |
|------------|-----------------------------|-------------------------|---|
| 74-87-3    | Chloromethane               | 1                       | U |
| 74-83-9    | Bromomethane                | 1                       | U |
| 75-01-4    | Vinyl chloride              | 1                       | U |
| 75-00-3    | Chloroethane                | 1                       | U |
| 75-09-2    | Methylene chloride          | 2                       | U |
| 67-64-1    | Acetone                     | 5                       | U |
| 75-15-0    | Carbon disulfide            | 1                       | U |
| 75-35-4    | 1,1-Dichloroethene          | 1                       | U |
| 75-34-3    | 1,1-Dichloroethane          | 1                       | U |
| 156-59-2   | cis-1,2-Dichloroethene      | 1                       | U |
| 156-60-5   | trans-1,2-Dichloroethene    | 1                       | U |
| 67-66-3    | Chloroform                  | 1                       | U |
| 107-06-2   | 1,2-Dichloroethane          | 1                       | U |
| 78-93-3    | 2-Butanone                  | 5                       | U |
| 74-97-5    | Bromochloromethane          | 1                       | U |
| 71-55-6    | 1,1,1-Trichloroethane       | 1                       | U |
| 56-23-5    | Carbon tetrachloride        | 1                       | U |
| 75-27-4    | Bromodichloromethane        | 1                       | U |
| 78-87-5    | 1,2-Dichloropropane         | 1                       | U |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1                       | U |
| 79-01-6    | Trichloroethene             | 1                       | U |
| 124-48-1   | Dibromochloromethane        | 1                       | U |
| 79-00-5    | 1,1,2-Trichloroethane       | 1                       | U |
| 71-43-2    | Benzene                     | 1                       | U |
| 10061-02-6 | trans-1,3-Dichloropropene   | 1                       | U |
| 75-25-2    | Bromoform                   | 1                       | U |
| 108-10-1   | 4-Methyl-2-pentanone        | 5                       | U |
| 591-78-6   | 2-Hexanone                  | 5                       | U |
| 127-18-4   | Tetrachloroethene           | 1                       | U |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 1                       | U |
| 106-93-4   | 1,2-Dibromoethane           | 1                       | U |
| 108-88-3   | Toluene                     | 1                       | U |
| 108-90-7   | Chlorobenzene               | 1                       | U |
| 100-41-4   | Ethylbenzene                | 1                       | U |
| 100-42-5   | Styrene                     | 1                       | U |
| 1330-20-7  | Xylenes (total)             | 1                       | U |
| 541-73-1   | 1,3-Dichlorobenzene         | 1                       | U |
| 106-46-7   | 1,4-Dichlorobenzene         | 1                       | U |
| 95-50-1    | 1,2-Dichlorobenzene         | 1                       | U |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | 1                       | U |
| 120-82-1   | 1,2,4-Trichlorobenzene      | 1                       | U |

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 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VHBLK01

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004

Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: EDCG0

Lab Sample ID: 6040.001      Date Received: 04/28/00

Lab File ID: G0950      Date Analyzed: 05/02/00

Purge Volume: 20 (mL)      Dilution Factor: 1.0

GC Column: DB-624      ID: 0.53 (mm) Length: 60 (m)

Number TICs found: 0

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC.<br>(ug/L) | Q |
|------------|---------------|----|----------------------|---|
| 1.         |               |    |                      |   |
| 2.         |               |    |                      |   |
| 3.         |               |    |                      |   |
| 4.         |               |    |                      |   |
| 5.         |               |    |                      |   |
| 6.         |               |    |                      |   |
| 7.         |               |    |                      |   |
| 8.         |               |    |                      |   |
| 9.         |               |    |                      |   |
| 10.        |               |    |                      |   |
| 11.        |               |    |                      |   |
| 12.        |               |    |                      |   |
| 13.        |               |    |                      |   |
| 14.        |               |    |                      |   |
| 15.        |               |    |                      |   |
| 16.        |               |    |                      |   |
| 17.        |               |    |                      |   |
| 18.        |               |    |                      |   |
| 19.        |               |    |                      |   |
| 20.        |               |    |                      |   |
| 21.        |               |    |                      |   |
| 22.        |               |    |                      |   |
| 23.        |               |    |                      |   |
| 24.        |               |    |                      |   |
| 25.        |               |    |                      |   |
| 26.        |               |    |                      |   |
| 27.        |               |    |                      |   |
| 28.        |               |    |                      |   |
| 29.        |               |    |                      |   |
| 30.        |               |    |                      |   |

1LCA  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E0057

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: EDCG0

Lab Sample ID: 6040.009

Date Received: 04/28/00

Lab File ID: G0936

Date Analyzed: 05/01/00

Purge Volume: 20 (mL)

Dilution Factor: 1.0

GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

| CAS NO.    | COMPOUND                    | CONCENTRATION<br>(ug/L) | Q |
|------------|-----------------------------|-------------------------|---|
| 74-87-3    | Chloromethane               | 1                       | U |
| 74-83-9    | Bromomethane                | 1                       | U |
| 75-01-4    | Vinyl chloride              | 1                       | U |
| 75-00-3    | Chloroethane                | 1                       | U |
| 75-09-2    | Methylene chloride          | 0.6                     | J |
| 67-64-1    | Acetone                     | 5                       | U |
| 75-15-0    | Carbon disulfide            | 1                       | U |
| 75-35-4    | 1,1-Dichloroethene          | 1                       | U |
| 75-34-3    | 1,1-Dichloroethane          | 1                       | U |
| 156-59-2   | cis-1,2-Dichloroethene      | 1                       | U |
| 156-60-5   | trans-1,2-Dichloroethene    | 1                       | U |
| 67-66-3    | Chloroform                  | 1                       | U |
| 107-06-2   | 1,2-Dichloroethane          | 1                       | U |
| 78-93-3    | 2-Butanone                  | 5                       | U |
| 74-97-5    | Bromochloromethane          | 1                       | U |
| 71-55-6    | 1,1,1-Trichloroethane       | 1                       | U |
| 56-23-5    | Carbon tetrachloride        | 1                       | U |
| 75-27-4    | Bromodichloromethane        | 1                       | U |
| 78-87-5    | 1,2-Dichloropropane         | 1                       | U |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1                       | U |
| 79-01-6    | Trichloroethene             | 1                       | U |
| 124-48-1   | Dibromochloromethane        | 1                       | U |
| 79-00-5    | 1,1,2-Trichloroethane       | 1                       | U |
| 71-43-2    | Benzene                     | 1                       | U |
| 10061-02-6 | trans-1,3-Dichloropropene   | 1                       | U |
| 75-25-2    | Bromoform                   | 1                       | U |
| 108-10-1   | 4-Methyl-2-pentanone        | 5                       | U |
| 591-78-6   | 2-Hexanone                  | 5                       | U |
| 127-18-4   | Tetrachloroethene           | 1                       | U |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 1                       | U |
| 106-93-4   | 1,2-Dibromoethane           | 1                       | U |
| 108-88-3   | Toluene                     | 1                       | U |
| 108-90-7   | Chlorobenzene               | 1                       | U |
| 100-41-4   | Ethylbenzene                | 1                       | U |
| 100-42-5   | Styrene                     | 1                       | U |
| 1330-20-7  | Xylenes (total)             | 1                       | U |
| 541-73-1   | 1,3-Dichlorobenzene         | 1                       | U |
| 106-46-7   | 1,4-Dichlorobenzene         | 1                       | U |
| 95-50-1    | 1,2-Dichlorobenzene         | 1                       | U |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | 1                       | U |
| 120-82-1   | 1,2,4-Trichlorobenzene      | 1                       | U |

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 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E0057

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004

Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: EDCG0

Lab Sample ID: 6040.009      Date Received: 04/28/00

Lab File ID: G0936      Date Analyzed: 05/01/00

Purge Volume: 20 (mL)      Dilution Factor: 1.0

GC Column: DB-624      ID: 0.53 (mm) Length: 60 (m)

Number TICs found: 0

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC.<br>(ug/L) | Q |
|------------|---------------|----|----------------------|---|
| 1.         |               |    |                      |   |
| 2.         |               |    |                      |   |
| 3.         |               |    |                      |   |
| 4.         |               |    |                      |   |
| 5.         |               |    |                      |   |
| 6.         |               |    |                      |   |
| 7.         |               |    |                      |   |
| 8.         |               |    |                      |   |
| 9.         |               |    |                      |   |
| 10.        |               |    |                      |   |
| 11.        |               |    |                      |   |
| 12.        |               |    |                      |   |
| 13.        |               |    |                      |   |
| 14.        |               |    |                      |   |
| 15.        |               |    |                      |   |
| 16.        |               |    |                      |   |
| 17.        |               |    |                      |   |
| 18.        |               |    |                      |   |
| 19.        |               |    |                      |   |
| 20.        |               |    |                      |   |
| 21.        |               |    |                      |   |
| 22.        |               |    |                      |   |
| 23.        |               |    |                      |   |
| 24.        |               |    |                      |   |
| 25.        |               |    |                      |   |
| 26.        |               |    |                      |   |
| 27.        |               |    |                      |   |
| 28.        |               |    |                      |   |
| 29.        |               |    |                      |   |
| 30.        |               |    |                      |   |

1LCA  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00F8

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004  
 Lab Code: PDP Case No.: 27986 SAS No.: \_\_\_\_\_ SDG No.: EDCG0  
 Lab Sample ID: 6040.012 Date Received: 04/28/00  
 Lab File ID: G0935 Date Analyzed: 05/01/00  
 Purge Volume: 20 (mL) Dilution Factor: 1.0  
 GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

| CAS NO.    | COMPOUND                    | CONCENTRATION (ug/L) | Q |
|------------|-----------------------------|----------------------|---|
| 74-87-3    | Chloromethane               | 1                    | U |
| 74-83-9    | Bromomethane                | 1                    | U |
| 75-01-4    | Vinyl chloride              | 1                    | U |
| 75-00-3    | Chloroethane                | 1                    | U |
| 75-09-2    | Methylene chloride          | 2                    | U |
| 67-64-1    | Acetone                     | 5                    | U |
| 75-15-0    | Carbon disulfide            | 1                    | U |
| 75-35-4    | 1,1-Dichloroethene          | 1                    | U |
| 75-34-3    | 1,1-Dichloroethane          | 1                    | U |
| 156-59-2   | cis-1,2-Dichloroethene      | 1                    | U |
| 156-60-5   | trans-1,2-Dichloroethene    | 1                    | U |
| 67-66-3    | Chloroform                  | 1                    | U |
| 107-06-2   | 1,2-Dichloroethane          | 1                    | U |
| 78-93-3    | 2-Butanone                  | 5                    | U |
| 74-97-5    | Bromochloromethane          | 1                    | U |
| 71-55-6    | 1,1,1-Trichloroethane       | 1                    | U |
| 56-23-5    | Carbon tetrachloride        | 1                    | U |
| 75-27-4    | Bromodichloromethane        | 1                    | U |
| 78-87-5    | 1,2-Dichloropropane         | 1                    | U |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1                    | U |
| 79-01-6    | Trichloroethene             | 1                    | U |
| 124-48-1   | Dibromochloromethane        | 1                    | U |
| 79-00-5    | 1,1,2-Trichloroethane       | 1                    | U |
| 71-43-2    | Benzene                     | 1                    | U |
| 10061-02-6 | trans-1,3-Dichloropropene   | 1                    | U |
| 75-25-2    | Bromoform                   | 1                    | U |
| 108-10-1   | 4-Methyl-2-pentanone        | 5                    | U |
| 591-78-6   | 2-Hexanone                  | 5                    | U |
| 127-18-4   | Tetrachloroethene           | 1                    | U |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 1                    | U |
| 106-93-4   | 1,2-Dibromoethane           | 1                    | U |
| 108-88-3   | Toluene                     | 1                    | U |
| 108-90-7   | Chlorobenzene               | 1                    | U |
| 100-41-4   | Ethylbenzene                | 1                    | U |
| 100-42-5   | Styrene                     | 1                    | U |
| 1330-20-7  | Xylenes (total)             | 1                    | U |
| 541-73-1   | 1,3-Dichlorobenzene         | 1                    | U |
| 106-46-7   | 1,4-Dichlorobenzene         | 1                    | U |
| 95-50-1    | 1,2-Dichlorobenzene         | 1                    | U |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | 1                    | U |
| 120-82-1   | 1,2,4-Trichlorobenzene      | 1                    | U |

1LCE  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00F8

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004

Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: EDCG0

Lab Sample ID: 6040.012      Date Received: 04/28/00

Lab File ID: G0935      Date Analyzed: 05/01/00

Purge Volume: 20 (mL)      Dilution Factor: 1.0

GC Column: DB-624      ID: 0.53 (mm) Length: 60 (m)

Number TICs found: 0

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC.<br>(ug/L) | Q |
|------------|---------------|----|----------------------|---|
| 1.         |               |    |                      |   |
| 2.         |               |    |                      |   |
| 3.         |               |    |                      |   |
| 4.         |               |    |                      |   |
| 5.         |               |    |                      |   |
| 6.         |               |    |                      |   |
| 7.         |               |    |                      |   |
| 8.         |               |    |                      |   |
| 9.         |               |    |                      |   |
| 10.        |               |    |                      |   |
| 11.        |               |    |                      |   |
| 12.        |               |    |                      |   |
| 13.        |               |    |                      |   |
| 14.        |               |    |                      |   |
| 15.        |               |    |                      |   |
| 16.        |               |    |                      |   |
| 17.        |               |    |                      |   |
| 18.        |               |    |                      |   |
| 19.        |               |    |                      |   |
| 20.        |               |    |                      |   |
| 21.        |               |    |                      |   |
| 22.        |               |    |                      |   |
| 23.        |               |    |                      |   |
| 24.        |               |    |                      |   |
| 25.        |               |    |                      |   |
| 26.        |               |    |                      |   |
| 27.        |               |    |                      |   |
| 28.        |               |    |                      |   |
| 29.        |               |    |                      |   |
| 30.        |               |    |                      |   |

1LCA  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00F9

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004  
 Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: EDCG0  
 Lab Sample ID: 6040.013      Date Received: 04/28/00  
 Lab File ID: G0937      Date Analyzed: 05/01/00  
 Purge Volume: 20 (mL)      Dilution Factor: 1.0  
 GC Column: DB-624      ID: 0.53 (mm) Length: 60 (m)

| CAS NO.    | COMPOUND                    | CONCENTRATION (ug/L) | Q |
|------------|-----------------------------|----------------------|---|
| 74-87-3    | Chloromethane               | 1                    | U |
| 74-83-9    | Bromomethane                | 1                    | U |
| 75-01-4    | Vinyl chloride              | 1                    | U |
| 75-00-3    | Chloroethane                | 1                    | U |
| 75-09-2    | Methylene chloride          | 2                    | U |
| 67-64-1    | Acetone                     | 5                    | U |
| 75-15-0    | Carbon disulfide            | 1                    | U |
| 75-35-4    | 1,1-Dichloroethene          | 1                    | U |
| 75-34-3    | 1,1-Dichloroethane          | 1                    | U |
| 156-59-2   | cis-1,2-Dichloroethene      | 1                    | U |
| 156-60-5   | trans-1,2-Dichloroethene    | 1                    | U |
| 67-66-3    | Chloroform                  | 1                    | U |
| 107-06-2   | 1,2-Dichloroethane          | 1                    | U |
| 78-93-3    | 2-Butanone                  | 5                    | U |
| 74-97-5    | Bromochloromethane          | 1                    | U |
| 71-55-6    | 1,1,1-Trichloroethane       | 1                    | U |
| 56-23-5    | Carbon tetrachloride        | 1                    | U |
| 75-27-4    | Bromodichloromethane        | 1                    | U |
| 78-87-5    | 1,2-Dichloropropane         | 1                    | U |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1                    | U |
| 79-01-6    | Trichloroethene             | 1                    | U |
| 124-48-1   | Dibromochloromethane        | 1                    | U |
| 79-00-5    | 1,1,2-Trichloroethane       | 1                    | U |
| 71-43-2    | Benzene                     | 1                    | U |
| 10061-02-6 | trans-1,3-Dichloropropene   | 1                    | U |
| 75-25-2    | Bromoform                   | 1                    | U |
| 108-10-1   | 4-Methyl-2-pentanone        | 5                    | U |
| 591-78-6   | 2-Hexanone                  | 5                    | U |
| 127-18-4   | Tetrachloroethene           | 1                    | U |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 1                    | U |
| 106-93-4   | 1,2-Dibromoethane           | 1                    | U |
| 108-88-3   | Toluene                     | 1                    | U |
| 108-90-7   | Chlorobenzene               | 1                    | U |
| 100-41-4   | Ethylbenzene                | 1                    | U |
| 100-42-5   | Styrene                     | 1                    | U |
| 1330-20-7  | Xylenes (total)             | 1                    | U |
| 541-73-1   | 1,3-Dichlorobenzene         | 1                    | U |
| 106-46-7   | 1,4-Dichlorobenzene         | 1                    | U |
| 95-50-1    | 1,2-Dichlorobenzene         | 1                    | U |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | 1                    | U |
| 120-82-1   | 1,2,4-Trichlorobenzene      | 1                    | U |

1LCE  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00F9

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004

Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: EDCG0

Lab Sample ID: 6040.013      Date Received: 04/28/00

Lab File ID: G0937      Date Analyzed: 05/01/00

Purge Volume: 20 (mL)      Dilution Factor: 1.0

GC Column: DB-624      ID: 0.53 (mm) Length: 60 (m)

Number TICs found: 0

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC.<br>(ug/L) | Q |
|------------|---------------|----|----------------------|---|
| 1.         |               |    |                      |   |
| 2.         |               |    |                      |   |
| 3.         |               |    |                      |   |
| 4.         |               |    |                      |   |
| 5.         |               |    |                      |   |
| 6.         |               |    |                      |   |
| 7.         |               |    |                      |   |
| 8.         |               |    |                      |   |
| 9.         |               |    |                      |   |
| 10.        |               |    |                      |   |
| 11.        |               |    |                      |   |
| 12.        |               |    |                      |   |
| 13.        |               |    |                      |   |
| 14.        |               |    |                      |   |
| 15.        |               |    |                      |   |
| 16.        |               |    |                      |   |
| 17.        |               |    |                      |   |
| 18.        |               |    |                      |   |
| 19.        |               |    |                      |   |
| 20.        |               |    |                      |   |
| 21.        |               |    |                      |   |
| 22.        |               |    |                      |   |
| 23.        |               |    |                      |   |
| 24.        |               |    |                      |   |
| 25.        |               |    |                      |   |
| 26.        |               |    |                      |   |
| 27.        |               |    |                      |   |
| 28.        |               |    |                      |   |
| 29.        |               |    |                      |   |
| 30.        |               |    |                      |   |

1LCA  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00FA

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: EDCG0

Lab Sample ID: 6040.014

Date Received: 04/28/00

Lab File ID: G0943

Date Analyzed: 05/02/00

Purge Volume: 20 (mL)

Dilution Factor: 1.0

GC Column: DB-624

ID: 0.53 (mm) Length: 60 (m)

| CAS NO.    | COMPOUND                    | CONCENTRATION (ug/L) | Q |
|------------|-----------------------------|----------------------|---|
| 74-87-3    | Chloromethane               | 1                    | U |
| 74-83-9    | Bromomethane                | 1                    | U |
| 75-01-4    | Vinyl chloride              | 1                    | U |
| 75-00-3    | Chloroethane                | 1                    | U |
| 75-09-2    | Methylene chloride          | 2                    | U |
| 67-64-1    | Acetone                     | 5                    | U |
| 75-15-0    | Carbon disulfide            | 1                    | U |
| 75-35-4    | 1,1-Dichloroethene          | 1                    | U |
| 75-34-3    | 1,1-Dichloroethane          | 1                    | U |
| 156-59-2   | cis-1,2-Dichloroethene      | 1                    | U |
| 156-60-5   | trans-1,2-Dichloroethene    | 1                    | U |
| 67-66-3    | Chloroform                  | 1                    | U |
| 107-06-2   | 1,2-Dichloroethane          | 1                    | U |
| 78-93-3    | 2-Butanone                  | 5                    | U |
| 74-97-5    | Bromochloromethane          | 1                    | U |
| 71-55-6    | 1,1,1-Trichloroethane       | 1                    | U |
| 56-23-5    | Carbon tetrachloride        | 1                    | U |
| 75-27-4    | Bromodichloromethane        | 1                    | U |
| 78-87-5    | 1,2-Dichloropropane         | 1                    | U |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1                    | U |
| 79-01-6    | Trichloroethene             | 1                    | U |
| 124-48-1   | Dibromochloromethane        | 1                    | U |
| 79-00-5    | 1,1,2-Trichloroethane       | 1                    | U |
| 71-43-2    | Benzene                     | 1                    | U |
| 10061-02-6 | trans-1,3-Dichloropropene   | 1                    | U |
| 75-25-2    | Bromoform                   | 1                    | U |
| 108-10-1   | 4-Methyl-2-pentanone        | 5                    | U |
| 591-78-6   | 2-Hexanone                  | 5                    | U |
| 127-18-4   | Tetrachloroethene           | 1                    | U |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 1                    | U |
| 106-93-4   | 1,2-Dibromoethane           | 1                    | U |
| 108-88-3   | Toluene                     | 1                    | U |
| 108-90-7   | Chlorobenzene               | 1                    | U |
| 100-41-4   | Ethylbenzene                | 1                    | U |
| 100-42-5   | Styrene                     | 1                    | U |
| 1330-20-7  | Xylenes (total)             | 1                    | U |
| 541-73-1   | 1,3-Dichlorobenzene         | 1                    | U |
| 106-46-7   | 1,4-Dichlorobenzene         | 1                    | U |
| 95-50-1    | 1,2-Dichlorobenzene         | 1                    | U |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | 1                    | U |
| 120-82-1   | 1,2,4-Trichlorobenzene      | 1                    | U |



| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. (ug/L) | Q |
|------------|---------------|----|-------------------|---|
| 1.         |               |    |                   |   |
| 2.         |               |    |                   |   |
| 3.         |               |    |                   |   |
| 4.         |               |    |                   |   |
| 5.         |               |    |                   |   |
| 6.         |               |    |                   |   |
| 7.         |               |    |                   |   |
| 8.         |               |    |                   |   |
| 9.         |               |    |                   |   |
| 10.        |               |    |                   |   |
| 11.        |               |    |                   |   |
| 12.        |               |    |                   |   |
| 13.        |               |    |                   |   |
| 14.        |               |    |                   |   |
| 15.        |               |    |                   |   |
| 16.        |               |    |                   |   |
| 17.        |               |    |                   |   |
| 18.        |               |    |                   |   |
| 19.        |               |    |                   |   |
| 20.        |               |    |                   |   |
| 21.        |               |    |                   |   |
| 22.        |               |    |                   |   |
| 23.        |               |    |                   |   |
| 24.        |               |    |                   |   |
| 25.        |               |    |                   |   |
| 26.        |               |    |                   |   |
| 27.        |               |    |                   |   |
| 28.        |               |    |                   |   |
| 29.        |               |    |                   |   |
| 30.        |               |    |                   |   |

Number TICs found: 0

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004  
 Lab Code: PDP Case No.: 27986 SAS No.: \_\_\_\_\_ SDG No.: EDCG0  
 Lab Sample ID: 6040.014 Date Received: 04/28/00  
 Lab File ID: G0943 Date Analyzed: 05/02/00  
 Purge Volume: 20 (mL) Dilution Factor: 1.0  
 GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

E00FA

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

ILCE

EPA SAMPLE NO.

1LCA  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00FB

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: EDCG0

Lab Sample ID: 6042.001

Date Received: 04/29/00

Lab File ID: G0945

Date Analyzed: 05/02/00

Purge Volume: 20 (mL)

Dilution Factor: 1.0

GC Column: DB-624

ID: 0.53 (mm) Length: 60 (m)

| CAS NO.    | COMPOUND                    | CONCENTRATION<br>(ug/L) | Q |
|------------|-----------------------------|-------------------------|---|
| 74-87-3    | Chloromethane               | 1                       | U |
| 74-83-9    | Bromomethane                | 1                       | U |
| 75-01-4    | Vinyl chloride              | 1                       | U |
| 75-00-3    | Chloroethane                | 1                       | U |
| 75-09-2    | Methylene chloride          | 2                       | U |
| 67-64-1    | Acetone                     | 5                       | U |
| 75-15-0    | Carbon disulfide            | 1                       | U |
| 75-35-4    | 1,1-Dichloroethene          | 1                       | U |
| 75-34-3    | 1,1-Dichloroethane          | 1                       | U |
| 156-59-2   | cis-1,2-Dichloroethene      | 1                       | U |
| 156-60-5   | trans-1,2-Dichloroethene    | 1                       | U |
| 67-66-3    | Chloroform                  | 1                       | U |
| 107-06-2   | 1,2-Dichloroethane          | 1                       | U |
| 78-93-3    | 2-Butanone                  | 5                       | U |
| 74-97-5    | Bromochloromethane          | 1                       | U |
| 71-55-6    | 1,1,1-Trichloroethane       | 1                       | U |
| 56-23-5    | Carbon tetrachloride        | 1                       | U |
| 75-27-4    | Bromodichloromethane        | 1                       | U |
| 78-87-5    | 1,2-Dichloropropane         | 1                       | U |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1                       | U |
| 79-01-6    | Trichloroethene             | 1                       | U |
| 124-48-1   | Dibromochloromethane        | 1                       | U |
| 79-00-5    | 1,1,2-Trichloroethane       | 1                       | U |
| 71-43-2    | Benzene                     | 1                       | U |
| 10061-02-6 | trans-1,3-Dichloropropene   | 1                       | U |
| 75-25-2    | Bromoform                   | 1                       | U |
| 108-10-1   | 4-Methyl-2-pentanone        | 5                       | U |
| 591-78-6   | 2-Hexanone                  | 5                       | U |
| 127-18-4   | Tetrachloroethene           | 1                       | U |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 1                       | U |
| 106-93-4   | 1,2-Dibromoethane           | 1                       | U |
| 108-88-3   | Toluene                     | 1                       | U |
| 108-90-7   | Chlorobenzene               | 1                       | U |
| 100-41-4   | Ethylbenzene                | 1                       | U |
| 100-42-5   | Styrene                     | 1                       | U |
| 1330-20-7  | Xylenes (total)             | 1                       | U |
| 541-73-1   | 1,3-Dichlorobenzene         | 1                       | U |
| 106-46-7   | 1,4-Dichlorobenzene         | 1                       | U |
| 95-50-1    | 1,2-Dichlorobenzene         | 1                       | U |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | 1                       | U |
| 120-82-1   | 1,2,4-Trichlorobenzene      | 1                       | U |

1LCE  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00FB

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004

Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: EDCG0

Lab Sample ID: 6042.001      Date Received: 04/29/00

Lab File ID: G0945      Date Analyzed: 05/02/00

Purge Volume: 20 (mL)      Dilution Factor: 1.0

GC Column: DB-624      ID: 0.53 (mm) Length: 60 (m)

Number TICs found:      2

| CAS NUMBER     | COMPOUND NAME            | RT   | EST. CONC.<br>(ug/L) | Q  |
|----------------|--------------------------|------|----------------------|----|
| 1. 000075-43-4 | Methane, dichlorofluoro- | 6.12 | 3                    | JN |
| 2. 000060-29-7 | Ethyl ether              | 6.91 | 4                    | JN |
| 3.             |                          |      |                      |    |
| 4.             |                          |      |                      |    |
| 5.             |                          |      |                      |    |
| 6.             |                          |      |                      |    |
| 7.             |                          |      |                      |    |
| 8.             |                          |      |                      |    |
| 9.             |                          |      |                      |    |
| 10.            |                          |      |                      |    |
| 11.            |                          |      |                      |    |
| 12.            |                          |      |                      |    |
| 13.            |                          |      |                      |    |
| 14.            |                          |      |                      |    |
| 15.            |                          |      |                      |    |
| 16.            |                          |      |                      |    |
| 17.            |                          |      |                      |    |
| 18.            |                          |      |                      |    |
| 19.            |                          |      |                      |    |
| 20.            |                          |      |                      |    |
| 21.            |                          |      |                      |    |
| 22.            |                          |      |                      |    |
| 23.            |                          |      |                      |    |
| 24.            |                          |      |                      |    |
| 25.            |                          |      |                      |    |
| 26.            |                          |      |                      |    |
| 27.            |                          |      |                      |    |
| 28.            |                          |      |                      |    |
| 29.            |                          |      |                      |    |
| 30.            |                          |      |                      |    |

1LCA  
 , LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00FC

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

Lab Code: PDP Case No.: 27986 SAS No.: \_\_\_\_\_ SDG No.: EDCG0

Lab Sample ID: 6042.003 Date Received: 04/29/00

Lab File ID: G0947 Date Analyzed: 05/02/00

Purge Volume: 20 (mL) Dilution Factor: 1.0

GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

| CAS NO.    | COMPOUND                    | CONCENTRATION<br>(ug/L) | Q |
|------------|-----------------------------|-------------------------|---|
| 74-87-3    | Chloromethane               | 1                       | U |
| 74-83-9    | Bromomethane                | 1                       | U |
| 75-01-4    | Vinyl chloride              | 1                       | U |
| 75-00-3    | Chloroethane                | 1                       | U |
| 75-09-2    | Methylene chloride          | 2                       | U |
| 67-64-1    | Acetone                     | 5                       | U |
| 75-15-0    | Carbon disulfide            | 1                       | U |
| 75-35-4    | 1,1-Dichloroethene          | 1                       | U |
| 75-34-3    | 1,1-Dichloroethane          | 2                       | U |
| 156-59-2   | cis-1,2-Dichloroethene      | 1                       | U |
| 156-60-5   | trans-1,2-Dichloroethene    | 1                       | U |
| 67-66-3    | Chloroform                  | 1                       | U |
| 107-06-2   | 1,2-Dichloroethane          | 1                       | U |
| 78-93-3    | 2-Butanone                  | 5                       | U |
| 74-97-5    | Bromochloromethane          | 1                       | U |
| 71-55-6    | 1,1,1-Trichloroethane       | 1                       | U |
| 56-23-5    | Carbon tetrachloride        | 1                       | U |
| 75-27-4    | Bromodichloromethane        | 1                       | U |
| 78-87-5    | 1,2-Dichloropropane         | 1                       | U |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1                       | U |
| 79-01-6    | Trichloroethene             | 1                       | U |
| 124-48-1   | Dibromochloromethane        | 1                       | U |
| 79-00-5    | 1,1,2-Trichloroethane       | 1                       | U |
| 71-43-2    | Benzene                     | 1                       | U |
| 10061-02-6 | trans-1,3-Dichloropropene   | 1                       | U |
| 75-25-2    | Bromoform                   | 1                       | U |
| 108-10-1   | 4-Methyl-2-pentanone        | 5                       | U |
| 591-78-6   | 2-Hexanone                  | 5                       | U |
| 127-18-4   | Tetrachloroethene           | 1                       | U |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 1                       | U |
| 106-93-4   | 1,2-Dibromoethane           | 1                       | U |
| 108-88-3   | Toluene                     | 1                       | U |
| 108-90-7   | Chlorobenzene               | 1                       | U |
| 100-41-4   | Ethylbenzene                | 1                       | U |
| 100-42-5   | Styrene                     | 1                       | U |
| 1330-20-7  | Xylenes (total)             | 1                       | U |
| 541-73-1   | 1,3-Dichlorobenzene         | 1                       | U |
| 106-46-7   | 1,4-Dichlorobenzene         | 1                       | U |
| 95-50-1    | 1,2-Dichlorobenzene         | 1                       | U |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | 1                       | U |
| 120-82-1   | 1,2,4-Trichlorobenzene      | 1                       | U |



| CAS NUMBER     | COMPOUND NAME            | RT   | EST. CONC. (ug/L) | Q    |
|----------------|--------------------------|------|-------------------|------|
| 1. 000075-43-4 | Methane, dichlorofluoro- | 6.12 |                   | JN 5 |
| 2. 000060-29-7 | Ethyl ether              | 6.91 |                   | JN 8 |
| 3.             |                          |      |                   |      |
| 4.             |                          |      |                   |      |
| 5.             |                          |      |                   |      |
| 6.             |                          |      |                   |      |
| 7.             |                          |      |                   |      |
| 8.             |                          |      |                   |      |
| 9.             |                          |      |                   |      |
| 10.            |                          |      |                   |      |
| 11.            |                          |      |                   |      |
| 12.            |                          |      |                   |      |
| 13.            |                          |      |                   |      |
| 14.            |                          |      |                   |      |
| 15.            |                          |      |                   |      |
| 16.            |                          |      |                   |      |
| 17.            |                          |      |                   |      |
| 18.            |                          |      |                   |      |
| 19.            |                          |      |                   |      |
| 20.            |                          |      |                   |      |
| 21.            |                          |      |                   |      |
| 22.            |                          |      |                   |      |
| 23.            |                          |      |                   |      |
| 24.            |                          |      |                   |      |
| 25.            |                          |      |                   |      |
| 26.            |                          |      |                   |      |
| 27.            |                          |      |                   |      |
| 28.            |                          |      |                   |      |
| 29.            |                          |      |                   |      |
| 30.            |                          |      |                   |      |

Number TICs found: 2

GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)  
 Purge Volume: 20 (mL) Dilution Factor: 1.0  
 Lab File ID: G0947 Date Analyzed: 05/02/00  
 Lab Sample ID: 6042.003 Date Received: 04/29/00  
 Lab Code: PDP Case No.: 27986 SAS No.: \_\_\_\_\_ SDG No.: EDCG0

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET TENTATIVELY IDENTIFIED COMPOUNDS

1LCE

EPA SAMPLE NO.

E00FC

11CA  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00FD

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004  
 Lab Code: PDP Case No.: 27986 SAS No.: \_\_\_\_\_ SDG No.: EDCG0  
 Lab Sample ID: 6042.002 Date Received: 04/29/00  
 Lab File ID: G0946 Date Analyzed: 05/02/00  
 Purge Volume: 20 (mL) Dilution Factor: 1.0  
 GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

| CAS NO.    | COMPOUND                    | CONCENTRATION<br>(ug/L) | Q |
|------------|-----------------------------|-------------------------|---|
| 74-87-3    | Chloromethane               | 1                       | U |
| 74-83-9    | Bromomethane                | 1                       | U |
| 75-01-4    | Vinyl chloride              | 1                       | U |
| 75-00-3    | Chloroethane                | 1                       | U |
| 75-09-2    | Methylene chloride          | 0.6                     | J |
| 67-64-1    | Acetone                     | 5                       | U |
| 75-15-0    | Carbon disulfide            | 1                       | U |
| 75-35-4    | 1,1-Dichloroethene          | 1                       | U |
| 75-34-3    | 1,1-Dichloroethane          | 1                       | U |
| 156-59-2   | cis-1,2-Dichloroethene      | 1                       | U |
| 156-60-5   | trans-1,2-Dichloroethene    | 1                       | U |
| 67-66-3    | Chloroform                  | 1                       | U |
| 107-06-2   | 1,2-Dichloroethane          | 1                       | U |
| 78-93-3    | 2-Butanone                  | 5                       | U |
| 74-97-5    | Bromochloromethane          | 1                       | U |
| 71-55-6    | 1,1,1-Trichloroethane       | 1                       | U |
| 56-23-5    | Carbon tetrachloride        | 1                       | U |
| 75-27-4    | Bromodichloromethane        | 1                       | U |
| 78-87-5    | 1,2-Dichloropropane         | 1                       | U |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1                       | U |
| 79-01-6    | Trichloroethene             | 1                       | U |
| 124-48-1   | Dibromochloromethane        | 1                       | U |
| 79-00-5    | 1,1,2-Trichloroethane       | 1                       | U |
| 71-43-2    | Benzene                     | 1                       | U |
| 10061-02-6 | trans-1,3-Dichloropropene   | 1                       | U |
| 75-25-2    | Bromoform                   | 1                       | U |
| 108-10-1   | 4-Methyl-2-pentanone        | 5                       | U |
| 591-78-6   | 2-Hexanone                  | 5                       | U |
| 127-18-4   | Tetrachloroethene           | 1                       | U |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 1                       | U |
| 106-93-4   | 1,2-Dibromoethane           | 1                       | U |
| 108-88-3   | Toluene                     | 1                       | U |
| 108-90-7   | Chlorobenzene               | 1                       | U |
| 100-41-4   | Ethylbenzene                | 1                       | U |
| 100-42-5   | Styrene                     | 1                       | U |
| 1330-20-7  | Xylenes (total)             | 1                       | U |
| 541-73-1   | 1,3-Dichlorobenzene         | 1                       | U |
| 106-46-7   | 1,4-Dichlorobenzene         | 1                       | U |
| 95-50-1    | 1,2-Dichlorobenzene         | 1                       | U |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | 1                       | U |
| 120-82-1   | 1,2,4-Trichlorobenzene      | 1                       | U |

1LCE  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00FD

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004

Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: EDCG0

Lab Sample ID: 6042.002      Date Received: 04/29/00

Lab File ID: G0946      Date Analyzed: 05/02/00

Purge Volume: 20 (mL)      Dilution Factor: 1.0

GC Column: DB-624      ID: 0.53 (mm) Length: 60 (m)

Number TICs found: 0

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC.<br>(ug/L) | Q |
|------------|---------------|----|----------------------|---|
| 1.         |               |    |                      |   |
| 2.         |               |    |                      |   |
| 3.         |               |    |                      |   |
| 4.         |               |    |                      |   |
| 5.         |               |    |                      |   |
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| 28.        |               |    |                      |   |
| 29.        |               |    |                      |   |
| 30.        |               |    |                      |   |

1LCA  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00FE

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004  
 Lab Code: PDP Case No.: 27986 SAS No.: \_\_\_\_\_ SDG No.: EDCGO  
 Lab Sample ID: 6042.004 Date Received: 04/29/00  
 Lab File ID: G0949 Date Analyzed: 05/02/00  
 Purge Volume: 20 (mL) Dilution Factor: 1.0  
 GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

| CAS NO.    | COMPOUND                    | CONCENTRATION<br>(ug/L) | Q |
|------------|-----------------------------|-------------------------|---|
| 74-87-3    | Chloromethane               | 1                       | U |
| 74-83-9    | Bromomethane                | 1                       | U |
| 75-01-4    | Vinyl chloride              | 1                       | U |
| 75-00-3    | Chloroethane                | 1                       | U |
| 75-09-2    | Methylene chloride          | 2                       | U |
| 67-64-1    | Acetone                     | 5                       | U |
| 75-15-0    | Carbon disulfide            | 1                       | U |
| 75-35-4    | 1,1-Dichloroethene          | 1                       | U |
| 75-34-3    | 1,1-Dichloroethane          | 3                       |   |
| 156-59-2   | cis-1,2-Dichloroethene      | 1                       | U |
| 156-60-5   | trans-1,2-Dichloroethene    | 1                       | U |
| 67-66-3    | Chloroform                  | 1                       | U |
| 107-06-2   | 1,2-Dichloroethane          | 1                       | U |
| 78-93-3    | 2-Butanone                  | 5                       | U |
| 74-97-5    | Bromochloromethane          | 1                       | U |
| 71-55-6    | 1,1,1-Trichloroethane       | 1                       | U |
| 56-23-5    | Carbon tetrachloride        | 1                       | U |
| 75-27-4    | Bromodichloromethane        | 1                       | U |
| 78-87-5    | 1,2-Dichloropropane         | 1                       | U |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1                       | U |
| 79-01-6    | Trichloroethene             | 1                       | U |
| 124-48-1   | Dibromochloromethane        | 1                       | U |
| 79-00-5    | 1,1,2-Trichloroethane       | 1                       | U |
| 71-43-2    | Benzene                     | 1                       | U |
| 10061-02-6 | trans-1,3-Dichloropropene   | 1                       | U |
| 75-25-2    | Bromoform                   | 1                       | U |
| 108-10-1   | 4-Methyl-2-pentanone        | 5                       | U |
| 591-78-6   | 2-Hexanone                  | 5                       | U |
| 127-18-4   | Tetrachloroethene           | 1                       | U |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 1                       | U |
| 106-93-4   | 1,2-Dibromoethane           | 1                       | U |
| 108-88-3   | Toluene                     | 1                       | U |
| 108-90-7   | Chlorobenzene               | 1                       | U |
| 100-41-4   | Ethylbenzene                | 1                       | U |
| 100-42-5   | Styrene                     | 1                       | U |
| 1330-20-7  | Xylenes (total)             | 1                       | U |
| 541-73-1   | 1,3-Dichlorobenzene         | 1                       | U |
| 106-46-7   | 1,4-Dichlorobenzene         | 1                       | U |
| 95-50-1    | 1,2-Dichlorobenzene         | 1                       | U |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | 1                       | U |
| 120-82-1   | 1,2,4-Trichlorobenzene      | 1                       | U |

1LCE  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00FE

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004

Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: EDCG0

Lab Sample ID: 6042.004      Date Received: 04/29/00

Lab File ID: G0949      Date Analyzed: 05/02/00

Purge Volume: 20 (mL)      Dilution Factor: 1.0

GC Column: DB-624      ID: 0.53 (mm) Length: 60 (m)

Number TICs found: 0

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC.<br>(ug/L) | Q |
|------------|---------------|----|----------------------|---|
| 1.         |               |    |                      |   |
| 2.         |               |    |                      |   |
| 3.         |               |    |                      |   |
| 4.         |               |    |                      |   |
| 5.         |               |    |                      |   |
| 6.         |               |    |                      |   |
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| 28.        |               |    |                      |   |
| 29.        |               |    |                      |   |
| 30.        |               |    |                      |   |

11CA  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDCGO

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: EDCGO

Lab Sample ID: 6040.002

Date Received: 04/28/00

Lab File ID: G0926

Date Analyzed: 05/01/00

Purge Volume: 20 (mL)

Dilution Factor: 1.0

GC Column: DB-624

ID: 0.53 (mm) Length: 60 (m)

| CAS NO.    | COMPOUND                    | CONCENTRATION<br>(ug/L) | Q |
|------------|-----------------------------|-------------------------|---|
| 74-87-3    | Chloromethane               | 1                       | U |
| 74-83-9    | Bromomethane                | 1                       | U |
| 75-01-4    | Vinyl chloride              | 1                       | U |
| 75-00-3    | Chloroethane                | 1                       | U |
| 75-09-2    | Methylene chloride          | 2                       | U |
| 67-64-1    | Acetone                     | 5                       | U |
| 75-15-0    | Carbon disulfide            | 1                       | U |
| 75-35-4    | 1,1-Dichloroethene          | 1                       | U |
| 75-34-3    | 1,1-Dichloroethane          | 1                       | U |
| 156-59-2   | cis-1,2-Dichloroethene      | 1                       | U |
| 156-60-5   | trans-1,2-Dichloroethene    | 1                       | U |
| 67-66-3    | Chloroform                  | 1                       | U |
| 107-06-2   | 1,2-Dichloroethane          | 1                       | U |
| 78-93-3    | 2-Butanone                  | 5                       | U |
| 74-97-5    | Bromochloromethane          | 1                       | U |
| 71-55-6    | 1,1,1-Trichloroethane       | 1                       | U |
| 56-23-5    | Carbon tetrachloride        | 1                       | U |
| 75-27-4    | Bromodichloromethane        | 1                       | U |
| 78-87-5    | 1,2-Dichloropropane         | 1                       | U |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1                       | U |
| 79-01-6    | Trichloroethene             | 1                       | U |
| 124-48-1   | Dibromochloromethane        | 1                       | U |
| 79-00-5    | 1,1,2-Trichloroethane       | 1                       | U |
| 71-43-2    | Benzene                     | 1                       | U |
| 10061-02-6 | trans-1,3-Dichloropropene   | 1                       | U |
| 75-25-2    | Bromoform                   | 1                       | U |
| 108-10-1   | 4-Methyl-2-pentanone        | 5                       | U |
| 591-78-6   | Hexanone                    | 5                       | U |
| 127-18-4   | Tetrachloroethene           | 1                       | U |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 1                       | U |
| 106-93-4   | 1,2-Dibromoethane           | 1                       | U |
| 108-88-3   | Toluene                     | 1                       | U |
| 108-90-7   | Chlorobenzene               | 1                       | U |
| 100-41-4   | Ethylbenzene                | 1                       | U |
| 100-42-5   | Styrene                     | 1                       | U |
| 1330-20-7  | Xylenes (total)             | 1                       | U |
| 541-73-1   | 1,3-Dichlorobenzene         | 1                       | U |
| 106-46-7   | 1,4-Dichlorobenzene         | 1                       | U |
| 95-50-1    | 1,2-Dichlorobenzene         | 1                       | U |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | 1                       | U |
| 120-82-1   | 1,2,4-Trichlorobenzene      | 1                       | U |

1LCE  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EDCG0

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004

Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: EDCG0

Lab Sample ID: 6040.002      Date Received: 04/28/00

Lab File ID: G0926      Date Analyzed: 05/01/00

Purge Volume: 20 (mL)      Dilution Factor: 1.0

GC Column: DB-624      ID: 0.53 (mm) Length: 60 (m)

Number TICs found: 0

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC.<br>(ug/L) | Q |
|------------|---------------|----|----------------------|---|
| 1.         |               |    |                      |   |
| 2.         |               |    |                      |   |
| 3.         |               |    |                      |   |
| 4.         |               |    |                      |   |
| 5.         |               |    |                      |   |
| 6.         |               |    |                      |   |
| 7.         |               |    |                      |   |
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| 15.        |               |    |                      |   |
| 16.        |               |    |                      |   |
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| 19.        |               |    |                      |   |
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| 27.        |               |    |                      |   |
| 28.        |               |    |                      |   |
| 29.        |               |    |                      |   |
| 30.        |               |    |                      |   |

1LCA  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDCG2

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004  
 Lab Code: PDP Case No.: 27986 SAS No.: \_\_\_\_\_ SDG No.: EDCG0  
 Lab Sample ID: 6040.004 Date Received: 04/28/00  
 Lab File ID: G0927 Date Analyzed: 05/01/00  
 Purge Volume: 20 (mL) Dilution Factor: 1.0  
 GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

| CAS NO.    | COMPOUND                    | CONCENTRATION (ug/L) | Q |
|------------|-----------------------------|----------------------|---|
| 74-87-3    | Chloromethane               | 1                    | U |
| 74-83-9    | Bromomethane                | 1                    | U |
| 75-01-4    | Vinyl chloride              | 1                    | U |
| 75-00-3    | Chloroethane                | 1                    | U |
| 75-09-2    | Methylene chloride          | 2                    | U |
| 67-64-1    | Acetone                     | 5                    | U |
| 75-15-0    | Carbon disulfide            | 1                    | U |
| 75-35-4    | 1,1-Dichloroethene          | 1                    | U |
| 75-34-3    | 1,1-Dichloroethane          | 1                    | U |
| 156-59-2   | cis-1,2-Dichloroethene      | 1                    | U |
| 156-60-5   | trans-1,2-Dichloroethene    | 1                    | U |
| 67-66-3    | Chloroform                  | 1                    | U |
| 107-06-2   | 1,2-Dichloroethane          | 1                    | U |
| 78-93-3    | 2-Butanone                  | 5                    | U |
| 74-97-5    | Bromochloromethane          | 1                    | U |
| 71-55-6    | 1,1,1-Trichloroethane       | 1                    | U |
| 56-23-5    | Carbon tetrachloride        | 1                    | U |
| 75-27-4    | Bromodichloromethane        | 1                    | U |
| 78-87-5    | 1,2-Dichloropropane         | 1                    | U |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1                    | U |
| 79-01-6    | Trichloroethene             | 1                    | U |
| 124-48-1   | Dibromochloromethane        | 1                    | U |
| 79-00-5    | 1,1,2-Trichloroethane       | 1                    | U |
| 71-43-2    | Benzene                     | 1                    | U |
| 10061-02-6 | trans-1,3-Dichloropropene   | 1                    | U |
| 75-25-2    | Bromoform                   | 1                    | U |
| 108-10-1   | 4-Methyl-2-pentanone        | 5                    | U |
| 591-78-6   | 2-Hexanone                  | 5                    | U |
| 127-18-4   | Tetrachloroethene           | 1                    | U |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 1                    | U |
| 106-93-4   | 1,2-Dibromoethane           | 1                    | U |
| 108-88-3   | Toluene                     | 1                    | U |
| 108-90-7   | Chlorobenzene               | 1                    | U |
| 100-41-4   | Ethylbenzene                | 1                    | U |
| 100-42-5   | Styrene                     | 1                    | U |
| 1330-20-7  | Xylenes (total)             | 1                    | U |
| 541-73-1   | 1,3-Dichlorobenzene         | 1                    | U |
| 106-46-7   | 1,4-Dichlorobenzene         | 1                    | U |
| 95-50-1    | 1,2-Dichlorobenzene         | 1                    | U |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | 1                    | U |
| 120-82-1   | 1,2,4-Trichlorobenzene      | 1                    | U |

1LCE  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EDCG2

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004

Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: EDCG0

Lab Sample ID: 6040.004      Date Received: 04/28/00

Lab File ID: G0927      Date Analyzed: 05/01/00

Purge Volume: 20 (mL)      Dilution Factor: 1.0

GC Column: DB-624      ID: 0.53 (mm) Length: 60 (m)

Number TICs found: 0

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC.<br>(ug/L) | Q |
|------------|---------------|----|----------------------|---|
| 1.         |               |    |                      |   |
| 2.         |               |    |                      |   |
| 3.         |               |    |                      |   |
| 4.         |               |    |                      |   |
| 5.         |               |    |                      |   |
| 6.         |               |    |                      |   |
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| 8.         |               |    |                      |   |
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| 13.        |               |    |                      |   |
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| 15.        |               |    |                      |   |
| 16.        |               |    |                      |   |
| 17.        |               |    |                      |   |
| 18.        |               |    |                      |   |
| 19.        |               |    |                      |   |
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| 21.        |               |    |                      |   |
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| 25.        |               |    |                      |   |
| 26.        |               |    |                      |   |
| 27.        |               |    |                      |   |
| 28.        |               |    |                      |   |
| 29.        |               |    |                      |   |
| 30.        |               |    |                      |   |

1LCA  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDCG4

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004  
 Lab Code: PDP Case No.: 27986 SAS No.: \_\_\_\_\_ SDG No.: EDCG0  
 Lab Sample ID: 6040.005 Date Received: 04/28/00  
 Lab File ID: G0928 Date Analyzed: 05/01/00  
 Purge Volume: 20 (mL) Dilution Factor: 1.0  
 GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

| CAS NO.    | COMPOUND                    | CONCENTRATION<br>(ug/L) | Q |
|------------|-----------------------------|-------------------------|---|
| 74-87-3    | Chloromethane               | 1                       | U |
| 74-83-9    | Bromomethane                | 1                       | U |
| 75-01-4    | Vinyl chloride              | 1                       | U |
| 75-00-3    | Chloroethane                | 1                       | U |
| 75-09-2    | Methylene chloride          | 2                       | U |
| 67-64-1    | Acetone                     | 5                       | U |
| 75-15-0    | Carbon disulfide            | 1                       | U |
| 75-35-4    | 1,1-Dichloroethene          | 1                       | U |
| 75-34-3    | 1,1-Dichloroethane          | 1                       | U |
| 156-59-2   | cis-1,2-Dichloroethene      | 1                       | U |
| 156-60-5   | trans-1,2-Dichloroethene    | 1                       | U |
| 67-66-3    | Chloroform                  | 1                       | U |
| 107-06-2   | 1,2-Dichloroethane          | 1                       | U |
| 78-93-3    | 2-Butanone                  | 5                       | U |
| 74-97-5    | Bromochloromethane          | 1                       | U |
| 71-55-6    | 1,1,1-Trichloroethane       | 1                       | U |
| 56-23-5    | Carbon tetrachloride        | 1                       | U |
| 75-27-4    | Bromodichloromethane        | 1                       | U |
| 78-87-5    | 1,2-Dichloropropane         | 1                       | U |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1                       | U |
| 79-01-6    | Trichloroethene             | 1                       | U |
| 124-48-1   | Dibromochloromethane        | 1                       | U |
| 79-00-5    | 1,1,2-Trichloroethane       | 1                       | U |
| 71-43-2    | Benzene                     | 1                       | U |
| 10061-02-6 | trans-1,3-Dichloropropene   | 1                       | U |
| 75-25-2    | Bromoform                   | 1                       | U |
| 108-10-1   | 4-Methyl-2-pentanone        | 5                       | U |
| 591-78-6   | 2-Hexanone                  | 5                       | U |
| 127-18-4   | Tetrachloroethene           | 1                       | U |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 1                       | U |
| 106-93-4   | 1,2-Dibromoethane           | 1                       | U |
| 108-88-3   | Toluene                     | 1                       | U |
| 108-90-7   | Chlorobenzene               | 1                       | U |
| 100-41-4   | Ethylbenzene                | 1                       | U |
| 100-42-5   | Styrene                     | 1                       | U |
| 1330-20-7  | Xylenes (total)             | 1                       | U |
| 541-73-1   | 1,3-Dichlorobenzene         | 1                       | U |
| 106-46-7   | 1,4-Dichlorobenzene         | 1                       | U |
| 95-50-1    | 1,2-Dichlorobenzene         | 1                       | U |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | 1                       | U |
| 120-82-1   | 1,2,4-Trichlorobenzene      | 1                       | U |

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 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EDCG4

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004

Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: EDCG0

Lab Sample ID: 6040.005      Date Received: 04/28/00

Lab File ID: G0928      Date Analyzed: 05/01/00

Purge Volume: 20 (mL)      Dilution Factor: 1.0

GC Column: DB-624      ID: 0.53 (mm) Length: 60 (m)

Number TICs found: 0

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC.<br>(ug/L) | Q |
|------------|---------------|----|----------------------|---|
| 1.         |               |    |                      |   |
| 2.         |               |    |                      |   |
| 3.         |               |    |                      |   |
| 4.         |               |    |                      |   |
| 5.         |               |    |                      |   |
| 6.         |               |    |                      |   |
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| 18.        |               |    |                      |   |
| 19.        |               |    |                      |   |
| 20.        |               |    |                      |   |
| 21.        |               |    |                      |   |
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| 28.        |               |    |                      |   |
| 29.        |               |    |                      |   |
| 30.        |               |    |                      |   |

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 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDCG5

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004  
 Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: EDCG0  
 Lab Sample ID: 6040.006      Date Received: 04/28/00  
 Lab File ID: G0929      Date Analyzed: 05/01/00  
 Purge Volume: 20 (mL)      Dilution Factor: 1.0  
 GC Column: DB-624      ID: 0.53 (mm) Length: 60 (m)

| CAS NO.    | COMPOUND                    | CONCENTRATION (ug/L) | Q |
|------------|-----------------------------|----------------------|---|
| 74-87-3    | Chloromethane               | 1                    | U |
| 74-83-9    | Bromomethane                | 1                    | U |
| 75-01-4    | Vinyl chloride              | 1                    | U |
| 75-00-3    | Chloroethane                | 1                    | U |
| 75-09-2    | Methylene chloride          | 2                    | U |
| 67-64-1    | Acetone                     | 5                    | U |
| 75-15-0    | Carbon disulfide            | 1                    | U |
| 75-35-4    | 1,1-Dichloroethene          | 1                    | U |
| 75-34-3    | 1,1-Dichloroethane          | 1                    | U |
| 156-59-2   | cis-1,2-Dichloroethene      | 1                    | U |
| 156-60-5   | trans-1,2-Dichloroethene    | 1                    | U |
| 67-66-3    | Chloroform                  | 1                    | U |
| 107-06-2   | 1,2-Dichloroethane          | 1                    | U |
| 78-93-3    | 2-Butanone                  | 5                    | U |
| 74-97-5    | Bromochloromethane          | 1                    | U |
| 71-55-6    | 1,1,1-Trichloroethane       | 1                    | U |
| 56-23-5    | Carbon tetrachloride        | 1                    | U |
| 75-27-4    | Bromodichloromethane        | 1                    | U |
| 78-87-5    | 1,2-Dichloropropane         | 1                    | U |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1                    | U |
| 79-01-6    | Trichloroethene             | 1                    | U |
| 124-48-1   | Dibromochloromethane        | 1                    | U |
| 79-00-5    | 1,1,2-Trichloroethane       | 1                    | U |
| 71-43-2    | Benzene                     | 1                    | U |
| 10061-02-6 | trans-1,3-Dichloropropene   | 1                    | U |
| 75-25-2    | Bromoform                   | 1                    | U |
| 108-10-1   | 4-Methyl-2-pentanone        | 5                    | U |
| 591-78-6   | 2-Hexanone                  | 5                    | U |
| 127-18-4   | Tetrachloroethene           | 1                    | U |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 1                    | U |
| 106-93-4   | 1,2-Dibromoethane           | 1                    | U |
| 108-88-3   | Toluene                     | 1                    | U |
| 108-90-7   | Chlorobenzene               | 1                    | U |
| 100-41-4   | Ethylbenzene                | 1                    | U |
| 100-42-5   | Styrene                     | 1                    | U |
| 1330-20-7  | Xylenes (total)             | 1                    | U |
| 541-73-1   | 1,3-Dichlorobenzene         | 1                    | U |
| 106-46-7   | 1,4-Dichlorobenzene         | 1                    | U |
| 95-50-1    | 1,2-Dichlorobenzene         | 1                    | U |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | 1                    | U |
| 120-82-1   | 1,2,4-Trichlorobenzene      | 1                    | U |

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 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EDCG5

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004

Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: EDCG0

Lab Sample ID: 6040.006      Date Received: 04/28/00

Lab File ID: G0929      Date Analyzed: 05/01/00

Purge Volume: 20 (mL)      Dilution Factor: 1.0

GC Column: DB-624      ID: 0.53 (mm) Length: 60 (m)

Number TICs found: 0

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC.<br>(ug/L) | Q |
|------------|---------------|----|----------------------|---|
| 1.         |               |    |                      |   |
| 2.         |               |    |                      |   |
| 3.         |               |    |                      |   |
| 4.         |               |    |                      |   |
| 5.         |               |    |                      |   |
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| 18.        |               |    |                      |   |
| 19.        |               |    |                      |   |
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| 27.        |               |    |                      |   |
| 28.        |               |    |                      |   |
| 29.        |               |    |                      |   |
| 30.        |               |    |                      |   |

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 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDCG6

Lab Name: PDP ANALYTICAL SERVICES      Contact: 68-D7-0004  
 Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: EDCG0  
 Lab Sample ID: 6040.007      Date Received: 04/28/00  
 Lab File ID: G0930      Date Analyzed: 05/01/00  
 Purge Volume: 20 (mL)      Dilution Factor: 1.0  
 GC Column: DB-624      ID: 0.53 (mm) Length: 60 (m)

| CAS NO.    | COMPOUND                    | CONCENTRATION<br>(ug/L) | Q |
|------------|-----------------------------|-------------------------|---|
| 74-87-3    | Chloromethane               | 1                       | U |
| 74-83-9    | Bromomethane                | 1                       | U |
| 75-01-4    | Vinyl chloride              | 1                       | U |
| 75-00-3    | Chloroethane                | 1                       | U |
| 75-09-2    | Methylene chloride          | 2                       | U |
| 67-64-1    | Acetone                     | 5                       | U |
| 75-15-0    | Carbon disulfide            | 1                       | U |
| 75-35-4    | 1,1-Dichloroethene          | 1                       | U |
| 75-34-3    | 1,1-Dichloroethane          | 1                       | U |
| 156-59-2   | cis-1,2-Dichloroethene      | 1                       | U |
| 156-60-5   | trans-1,2-Dichloroethene    | 1                       | U |
| 67-66-3    | Chloroform                  | 1                       | U |
| 107-06-2   | 1,2-Dichloroethane          | 1                       | U |
| 78-93-3    | 2-Butanone                  | 5                       | U |
| 74-97-5    | Bromochloromethane          | 1                       | U |
| 71-55-6    | 1,1,1-Trichloroethane       | 1                       | U |
| 56-23-5    | Carbon tetrachloride        | 1                       | U |
| 75-27-4    | Bromodichloromethane        | 1                       | U |
| 78-87-5    | 1,2-Dichloropropane         | 1                       | U |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1                       | U |
| 79-01-6    | Trichloroethene             | 1                       | U |
| 124-48-1   | Dibromochloromethane        | 1                       | U |
| 79-00-5    | 1,1,2-Trichloroethane       | 1                       | U |
| 71-43-2    | Benzene                     | 1                       | U |
| 10061-02-6 | trans-1,3-Dichloropropene   | 1                       | U |
| 75-25-2    | Bromoform                   | 1                       | U |
| 108-10-1   | 4-Methyl-2-pentanone        | 5                       | U |
| 591-78-6   | 2-Hexanone                  | 5                       | U |
| 127-18-4   | Tetrachloroethene           | 1                       | U |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 1                       | U |
| 106-93-4   | 1,2-Dibromoethane           | 1                       | U |
| 108-88-3   | Toluene                     | 1                       | U |
| 108-90-7   | Chlorobenzene               | 1                       | U |
| 100-41-4   | Ethylbenzene                | 1                       | U |
| 100-42-5   | Styrene                     | 1                       | U |
| 1330-20-7  | Xylenes (total)             | 1                       | U |
| 541-73-1   | 1,3-Dichlorobenzene         | 1                       | U |
| 106-46-7   | 1,4-Dichlorobenzene         | 1                       | U |
| 95-50-1    | 1,2-Dichlorobenzene         | 1                       | U |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | 1                       | U |
| 120-82-1   | 1,2,4-Trichlorobenzene      | 1                       | U |

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 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EDCG6

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004

Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: EDCG0

Lab Sample ID: 6040.007      Date Received: 04/28/00

Lab File ID: G0930      Date Analyzed: 05/01/00

Purge Volume: 20 (mL)      Dilution Factor: 1.0

GC Column: DB-624      ID: 0.53 (mm) Length: 60 (m)

Number TICs found: 0

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC.<br>(ug/L) | Q |
|------------|---------------|----|----------------------|---|
| 1.         |               |    |                      |   |
| 2.         |               |    |                      |   |
| 3.         |               |    |                      |   |
| 4.         |               |    |                      |   |
| 5.         |               |    |                      |   |
| 6.         |               |    |                      |   |
| 7.         |               |    |                      |   |
| 8.         |               |    |                      |   |
| 9.         |               |    |                      |   |
| 10.        |               |    |                      |   |
| 11.        |               |    |                      |   |
| 12.        |               |    |                      |   |
| 13.        |               |    |                      |   |
| 14.        |               |    |                      |   |
| 15.        |               |    |                      |   |
| 16.        |               |    |                      |   |
| 17.        |               |    |                      |   |
| 18.        |               |    |                      |   |
| 19.        |               |    |                      |   |
| 20.        |               |    |                      |   |
| 21.        |               |    |                      |   |
| 22.        |               |    |                      |   |
| 23.        |               |    |                      |   |
| 24.        |               |    |                      |   |
| 25.        |               |    |                      |   |
| 26.        |               |    |                      |   |
| 27.        |               |    |                      |   |
| 28.        |               |    |                      |   |
| 29.        |               |    |                      |   |
| 30.        |               |    |                      |   |

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EPA SAMPLE NO.

EDCG7

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004  
 Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: EDCG0  
 Lab Sample ID: 6040.008      Date Received: 04/28/00  
 Lab File ID: G0931      Date Analyzed: 05/01/00  
 Purge Volume: 20 (mL)      Dilution Factor: 1.0  
 GC Column: DB-624      ID: 0.53 (mm) Length: 60 (m)

| CAS NO.    | COMPOUND                    | CONCENTRATION<br>(ug/L) | Q |
|------------|-----------------------------|-------------------------|---|
| 74-87-3    | Chloromethane               | 1                       | U |
| 74-83-9    | Bromomethane                | 1                       | U |
| 75-01-4    | Vinyl chloride              | 1                       | U |
| 75-00-3    | Chloroethane                | 1                       | U |
| 75-09-2    | Methylene chloride          | 2                       | U |
| 67-64-1    | Acetone                     | 5                       | U |
| 75-15-0    | Carbon disulfide            | 1                       | U |
| 75-35-4    | 1,1-Dichloroethene          | 1                       | U |
| 75-34-3    | 1,1-Dichloroethane          | 1                       | U |
| 156-59-2   | cis-1,2-Dichloroethene      | 1                       | U |
| 156-60-5   | trans-1,2-Dichloroethene    | 1                       | U |
| 67-66-3    | Chloroform                  | 1                       | U |
| 107-06-2   | 1,2-Dichloroethane          | 1                       | U |
| 78-93-3    | 2-Butanone                  | 5                       | U |
| 74-97-5    | Bromochloromethane          | 1                       | U |
| 71-55-6    | 1,1,1-Trichloroethane       | 1                       | U |
| 56-23-5    | Carbon tetrachloride        | 1                       | U |
| 75-27-4    | Bromodichloromethane        | 1                       | U |
| 78-87-5    | 1,2-Dichloropropane         | 1                       | U |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1                       | U |
| 79-01-6    | Trichloroethene             | 1                       | U |
| 124-48-1   | Dibromochloromethane        | 1                       | U |
| 79-00-5    | 1,1,2-Trichloroethane       | 1                       | U |
| 71-43-2    | Benzene                     | 1                       | U |
| 10061-02-6 | trans-1,3-Dichloropropene   | 1                       | U |
| 75-25-2    | Bromoform                   | 1                       | U |
| 108-10-1   | 4-Methyl-2-pentanone        | 5                       | U |
| 591-78-6   | 2-Hexanone                  | 5                       | U |
| 127-18-4   | Tetrachloroethene           | 1                       | U |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 1                       | U |
| 106-93-4   | 1,2-Dibromoethane           | 1                       | U |
| 108-88-3   | Toluene                     | 1                       | U |
| 108-90-7   | Chlorobenzene               | 1                       | U |
| 100-41-4   | Ethylbenzene                | 1                       | U |
| 100-42-5   | Styrene                     | 1                       | U |
| 1330-20-7  | Xylenes (total)             | 1                       | U |
| 541-73-1   | 1,3-Dichlorobenzene         | 1                       | U |
| 106-46-7   | 1,4-Dichlorobenzene         | 1                       | U |
| 95-50-1    | 1,2-Dichlorobenzene         | 1                       | U |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | 1                       | U |
| 120-82-1   | 1,2,4-Trichlorobenzene      | 1                       | U |

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 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EDCG7

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004

Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: EDCG0

Lab Sample ID: 6040.008      Date Received: 04/28/00

Lab File ID: G0931      Date Analyzed: 05/01/00

Purge Volume: 20 (mL)      Dilution Factor: 1.0

GC Column: DB-624      ID: 0.53 (mm) Length: 60 (m)

Number TICs found:      0

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC.<br>(ug/L) | Q |
|------------|---------------|----|----------------------|---|
| 1.         |               |    |                      |   |
| 2.         |               |    |                      |   |
| 3.         |               |    |                      |   |
| 4.         |               |    |                      |   |
| 5.         |               |    |                      |   |
| 6.         |               |    |                      |   |
| 7.         |               |    |                      |   |
| 8.         |               |    |                      |   |
| 9.         |               |    |                      |   |
| 10.        |               |    |                      |   |
| 11.        |               |    |                      |   |
| 12.        |               |    |                      |   |
| 13.        |               |    |                      |   |
| 14.        |               |    |                      |   |
| 15.        |               |    |                      |   |
| 16.        |               |    |                      |   |
| 17.        |               |    |                      |   |
| 18.        |               |    |                      |   |
| 19.        |               |    |                      |   |
| 20.        |               |    |                      |   |
| 21.        |               |    |                      |   |
| 22.        |               |    |                      |   |
| 23.        |               |    |                      |   |
| 24.        |               |    |                      |   |
| 25.        |               |    |                      |   |
| 26.        |               |    |                      |   |
| 27.        |               |    |                      |   |
| 28.        |               |    |                      |   |
| 29.        |               |    |                      |   |
| 30.        |               |    |                      |   |

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EPA SAMPLE NO.

EDCG8

Lab Name: PDP ANALYTICAL SERVICES

Contact: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: EDCG0

Lab Sample ID: 6040.010

Date Received: 04/28/00

Lab File ID: G0932

Date Analyzed: 05/01/00

Purge Volume: 20 (mL)

Dilution Factor: 1.0

GC Column: DB-624

ID: 0.53 (mm) Length: 60 (m)

| CAS NO.    | COMPOUND                    | CONCENTRATION<br>(ug/L) | Q |
|------------|-----------------------------|-------------------------|---|
| 74-87-3    | Chloromethane               | 1                       | U |
| 74-83-9    | Bromomethane                | 1                       | U |
| 75-01-4    | Vinyl chloride              | 1                       | U |
| 75-00-3    | Chloroethane                | 1                       | U |
| 75-09-2    | Methylene chloride          | 2                       | U |
| 67-64-1    | Acetone                     | 5                       | U |
| 75-15-0    | Carbon disulfide            | 1                       | U |
| 75-35-4    | 1,1-Dichloroethene          | 1                       | U |
| 75-34-3    | 1,1-Dichloroethane          | 1                       | U |
| 156-59-2   | cis-1,2-Dichloroethene      | 1                       | U |
| 156-60-5   | trans-1,2-Dichloroethene    | 1                       | U |
| 67-66-3    | Chloroform                  | 1                       | U |
| 107-06-2   | 1,2-Dichloroethane          | 1                       | U |
| 78-93-3    | 2-Butanone                  | 5                       | U |
| 74-97-5    | Bromochloromethane          | 1                       | U |
| 71-55-6    | 1,1,1-Trichloroethane       | 1                       | U |
| 56-23-5    | Carbon tetrachloride        | 1                       | U |
| 75-27-4    | Bromodichloromethane        | 1                       | U |
| 78-87-5    | 1,2-Dichloropropane         | 1                       | U |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1                       | U |
| 79-01-6    | Trichloroethene             | 1                       | U |
| 124-48-1   | Dibromochloromethane        | 1                       | U |
| 79-00-5    | 1,1,2-Trichloroethane       | 1                       | U |
| 71-43-2    | Benzene                     | 1                       | U |
| 10061-02-6 | trans-1,3-Dichloropropene   | 1                       | U |
| 75-25-2    | Bromoform                   | 1                       | U |
| 108-10-1   | 4-Methyl-2-pentanone        | 5                       | U |
| 591-78-6   | 2-Hexanone                  | 5                       | U |
| 127-18-4   | Tetrachloroethene           | 1                       | U |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 1                       | U |
| 106-93-4   | 1,2-Dibromoethane           | 1                       | U |
| 108-88-3   | Toluene                     | 1                       | U |
| 108-90-7   | Chlorobenzene               | 1                       | U |
| 100-41-4   | Ethylbenzene                | 1                       | U |
| 100-42-5   | Styrene                     | 1                       | U |
| 1330-20-7  | Xylenes (total)             | 1                       | U |
| 541-73-1   | 1,3-Dichlorobenzene         | 1                       | U |
| 106-46-7   | 1,4-Dichlorobenzene         | 1                       | U |
| 95-50-1    | 1,2-Dichlorobenzene         | 1                       | U |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | 1                       | U |
| 120-82-1   | 1,2,4-Trichlorobenzene      | 1                       | U |

1LCE  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EDCG8

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004

Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: EDCG0

Lab Sample ID: 6040.010      Date Received: 04/28/00

Lab File ID: G0932      Date Analyzed: 05/01/00

Purge Volume: 20 (mL)      Dilution Factor: 1.0

GC Column: DB-624      ID: 0.53 (mm) Length: 60 (m)

Number TICs found: 0

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC.<br>(ug/L) | Q |
|------------|---------------|----|----------------------|---|
| 1.         |               |    |                      |   |
| 2.         |               |    |                      |   |
| 3.         |               |    |                      |   |
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1LCA  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDCG9

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004  
 Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: EDCG0  
 Lab Sample ID: 6040.011      Date Received: 04/28/00  
 Lab File ID: G0933      Date Analyzed: 05/01/00  
 Purge Volume: 20 (mL)      Dilution Factor: 1.0  
 GC Column: DB-624      ID: 0.53 (mm) Length: 60 (m)

| CAS NO.    | COMPOUND                    | CONCENTRATION (ug/L) | Q |
|------------|-----------------------------|----------------------|---|
| 74-87-3    | Chloromethane               | 1                    | U |
| 74-83-9    | Bromomethane                | 1                    | U |
| 75-01-4    | Vinyl chloride              | 1                    | U |
| 75-00-3    | Chloroethane                | 1                    | U |
| 75-09-2    | Methylene chloride          | 2                    | U |
| 67-64-1    | Acetone                     | 5                    | U |
| 75-15-0    | Carbon disulfide            | 1                    | U |
| 75-35-4    | 1,1-Dichloroethene          | 1                    | U |
| 75-34-3    | 1,1-Dichloroethane          | 1                    | U |
| 156-59-2   | cis-1,2-Dichloroethene      | 1                    | U |
| 156-60-5   | trans-1,2-Dichloroethene    | 1                    | U |
| 67-66-3    | Chloroform                  | 1                    | U |
| 107-06-2   | 1,2-Dichloroethane          | 1                    | U |
| 78-93-3    | 2-Butanone                  | 5                    | U |
| 74-97-5    | Bromochloromethane          | 1                    | U |
| 71-55-6    | 1,1,1-Trichloroethane       | 1                    | U |
| 56-23-5    | Carbon tetrachloride        | 1                    | U |
| 75-27-4    | Bromodichloromethane        | 1                    | U |
| 78-87-5    | 1,2-Dichloropropane         | 1                    | U |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1                    | U |
| 79-01-6    | Trichloroethene             | 1                    | U |
| 124-48-1   | Dibromochloromethane        | 1                    | U |
| 79-00-5    | 1,1,2-Trichloroethane       | 1                    | U |
| 71-43-2    | Benzene                     | 1                    | U |
| 10061-02-6 | trans-1,3-Dichloropropene   | 1                    | U |
| 75-25-2    | Bromoform                   | 1                    | U |
| 108-10-1   | 4-Methyl-2-pentanone        | 5                    | U |
| 591-78-6   | 2-Hexanone                  | 5                    | U |
| 127-18-4   | Tetrachloroethene           | 1                    | U |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 1                    | U |
| 106-93-4   | 1,2-Dibromoethane           | 1                    | U |
| 108-88-3   | Toluene                     | 1                    | U |
| 108-90-7   | Chlorobenzene               | 1                    | U |
| 100-41-4   | Ethylbenzene                | 1                    | U |
| 100-42-5   | Styrene                     | 1                    | U |
| 1330-20-7  | Xylenes (total)             | 1                    | U |
| 541-73-1   | 1,3-Dichlorobenzene         | 1                    | U |
| 106-46-7   | 1,4-Dichlorobenzene         | 1                    | U |
| 95-50-1    | 1,2-Dichlorobenzene         | 1                    | U |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | 1                    | U |
| 120-82-1   | 1,2,4-Trichlorobenzene      | 1                    | U |

1LCE  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EDCG9

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004

Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: EDCG0

Lab Sample ID: 6040.011      Date Received: 04/28/00

Lab File ID: G0933      Date Analyzed: 05/01/00

Purge Volume: 20 (mL)      Dilution Factor: 1.0

GC Column: DB-624      ID: 0.53 (mm) Length: 60 (m)

Number TICs found:      0

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC.<br>(ug/L) | Q |
|------------|---------------|----|----------------------|---|
| 1.         |               |    |                      |   |
| 2.         |               |    |                      |   |
| 3.         |               |    |                      |   |
| 4.         |               |    |                      |   |
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| 30.        |               |    |                      |   |

1LCA  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDCH0

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004  
 Lab Code: PDP Case No.: 27986 SAS No.: \_\_\_\_\_ SDG No.: EDCG0  
 Lab Sample ID: 6040.003 Date Received: 04/28/00  
 Lab File ID: G0934 Date Analyzed: 05/01/00  
 Purge Volume: 20 (mL) Dilution Factor: 1.0  
 GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

| CAS NO.    | COMPOUND                    | CONCENTRATION<br>(ug/L) | Q |
|------------|-----------------------------|-------------------------|---|
| 74-87-3    | Chloromethane               | 1                       | U |
| 74-83-9    | Bromomethane                | 1                       | U |
| 75-01-4    | Vinyl chloride              | 1                       | U |
| 75-00-3    | Chloroethane                | 1                       | U |
| 75-09-2    | Methylene chloride          | 5                       |   |
| 67-64-1    | Acetone                     | 2                       | J |
| 75-15-0    | Carbon disulfide            | 0.8                     | J |
| 75-35-4    | 1,1-Dichloroethene          | 1                       | U |
| 75-34-3    | 1,1-Dichloroethane          | 1                       | U |
| 156-59-2   | cis-1,2-Dichloroethene      | 1                       | U |
| 156-60-5   | trans-1,2-Dichloroethene    | 1                       | U |
| 67-66-3    | Chloroform                  | 1                       | U |
| 107-06-2   | 1,2-Dichloroethane          | 1                       | U |
| 78-93-3    | 2-Butanone                  | 5                       | U |
| 74-97-5    | Bromochloromethane          | 1                       | U |
| 71-55-6    | 1,1,1-Trichloroethane       | 1                       | U |
| 56-23-5    | Carbon tetrachloride        | 1                       | U |
| 75-27-4    | Bromodichloromethane        | 1                       | U |
| 78-87-5    | 1,2-Dichloropropane         | 1                       | U |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1                       | U |
| 79-01-6    | Trichloroethene             | 1                       | U |
| 124-48-1   | Dibromochloromethane        | 1                       | U |
| 79-00-5    | 1,1,2-Trichloroethane       | 1                       | U |
| 71-43-2    | Benzene                     | 1                       | U |
| 10061-02-6 | trans-1,3-Dichloropropene   | 1                       | U |
| 75-25-2    | Bromoform                   | 1                       | U |
| 108-10-1   | 4-Methyl-2-pentanone        | 5                       | U |
| 591-78-6   | 2-Hexanone                  | 5                       | U |
| 127-18-4   | Tetrachloroethene           | 1                       | U |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 1                       | U |
| 106-93-4   | 1,2-Dibromoethane           | 1                       | U |
| 108-88-3   | Toluene                     | 1                       | U |
| 108-90-7   | Chlorobenzene               | 1                       | U |
| 100-41-4   | Ethylbenzene                | 1                       | U |
| 100-42-5   | Styrene                     | 1                       | U |
| 1330-20-7  | Xylenes (total)             | 1                       | U |
| 541-73-1   | 1,3-Dichlorobenzene         | 1                       | U |
| 106-46-7   | 1,4-Dichlorobenzene         | 1                       | U |
| 95-50-1    | 1,2-Dichlorobenzene         | 1                       | U |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | 1                       | U |
| 120-82-1   | 1,2,4-Trichlorobenzene      | 1                       | U |

1LCE  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

|       |
|-------|
| EDCH0 |
|-------|

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004

Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: EDCG0

Lab Sample ID: 6040.003      Date Received: 04/28/00

Lab File ID: G0934      Date Analyzed: 05/01/00

Purge Volume: 20 (mL)      Dilution Factor: 1.0

GC Column: DB-624      ID: 0.53 (mm) Length: 60 (m)

Number TICs found: 0

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC.<br>(ug/L) | Q |
|------------|---------------|----|----------------------|---|
| 1.         |               |    |                      |   |
| 2.         |               |    |                      |   |
| 3.         |               |    |                      |   |
| 4.         |               |    |                      |   |
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| 17.        |               |    |                      |   |
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| 26.        |               |    |                      |   |
| 27.        |               |    |                      |   |
| 28.        |               |    |                      |   |
| 29.        |               |    |                      |   |
| 30.        |               |    |                      |   |

1LCA  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VLCS96

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004  
 Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: EDCG0  
 Lab Sample ID: GVLCS060      Date Received: \_\_\_\_\_  
 Lab File ID: G0925      Date Analyzed: 05/01/00  
 Purge Volume: 20 (mL)      Dilution Factor: 1.0  
 GC Column: DB-624      ID: 0.53 (mm) Length: 60 (m)

| CAS NO.    | COMPOUND                    | CONCENTRATION (ug/L) | Q |
|------------|-----------------------------|----------------------|---|
| 74-87-3    | Chloromethane               | 1                    | U |
| 74-83-9    | Bromomethane                | 1                    | U |
| 75-01-4    | Vinyl chloride              | 4                    |   |
| 75-00-3    | Chloroethane                | 1                    | U |
| 75-09-2    | Methylene chloride          | 2                    | U |
| 67-64-1    | Acetone                     | 5                    | U |
| 75-15-0    | Carbon disulfide            | 1                    | U |
| 75-35-4    | 1,1-Dichloroethene          | 1                    | U |
| 75-34-3    | 1,1-Dichloroethane          | 1                    | U |
| 156-59-2   | cis-1,2-Dichloroethene      | 1                    | U |
| 156-60-5   | trans-1,2-Dichloroethene    | 1                    | U |
| 67-66-3    | Chloroform                  | 1                    | U |
| 107-06-2   | 1,2-Dichloroethane          | 5                    |   |
| 78-93-3    | 2-Butanone                  | 5                    | U |
| 74-97-5    | Bromochloromethane          | 1                    | U |
| 71-55-6    | 1,1,1-Trichloroethane       | 1                    | U |
| 56-23-5    | Carbon tetrachloride        | 4                    |   |
| 75-27-4    | Bromodichloromethane        | 1                    | U |
| 78-87-5    | 1,2-Dichloropropane         | 5                    |   |
| 10061-01-5 | cis-1,3-Dichloropropene     | 4                    |   |
| 79-01-6    | Trichloroethene             | 5                    |   |
| 124-48-1   | Dibromochloromethane        | 1                    | U |
| 79-00-5    | 1,1,2-Trichloroethane       | 5                    |   |
| 71-43-2    | Benzene                     | 5                    |   |
| 10061-02-6 | trans-1,3-Dichloropropene   | 1                    | U |
| 75-25-2    | Bromoform                   | 4                    |   |
| 108-10-1   | 4-Methyl-2-pentanone        | 5                    | U |
| 591-78-6   | 2-Hexanone                  | 5                    | U |
| 127-18-4   | Tetrachloroethene           | 4                    |   |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 1                    | U |
| 106-93-4   | 1,2-Dibromoethane           | 4                    |   |
| 108-88-3   | Toluene                     | 1                    | U |
| 108-90-7   | Chlorobenzene               | 1                    | U |
| 100-41-4   | Ethylbenzene                | 1                    | U |
| 100-42-5   | Styrene                     | 1                    | U |
| 1330-20-7  | Xylenes (total)             | 1                    | U |
| 541-73-1   | 1,3-Dichlorobenzene         | 1                    | U |
| 106-46-7   | 1,4-Dichlorobenzene         | 4                    |   |
| 95-50-1    | 1,2-Dichlorobenzene         | 1                    | U |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | 1                    | U |
| 120-82-1   | 1,2,4-Trichlorobenzene      | 1                    | U |

1LCA  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VLCS97

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004  
 Lab Code: PDP Case No.: 27986 SAS No.: \_\_\_\_\_ SDG No.: EDCG0  
 Lab Sample ID: GVLCS061 Date Received: \_\_\_\_\_  
 Lab File ID: G0942 Date Analyzed: 05/02/00  
 Purge Volume: 20 (mL) Dilution Factor: 1.0  
 GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

| CAS NO.    | COMPOUND                    | CONCENTRATION<br>(ug/L) | Q |
|------------|-----------------------------|-------------------------|---|
| 74-87-3    | Chloromethane               | 1                       | U |
| 74-83-9    | Bromomethane                | 1                       | U |
| 75-01-4    | Vinyl chloride              | 4                       |   |
| 75-00-3    | Chloroethane                | 1                       | U |
| 75-09-2    | Methylene chloride          | 2                       | U |
| 67-64-1    | Acetone                     | 5                       | U |
| 75-15-0    | Carbon disulfide            | 1                       | U |
| 75-35-4    | 1,1-Dichloroethene          | 1                       | U |
| 75-34-3    | 1,1-Dichloroethane          | 1                       | U |
| 156-59-2   | cis-1,2-Dichloroethene      | 1                       | U |
| 156-60-5   | trans-1,2-Dichloroethene    | 1                       | U |
| 67-66-3    | Chloroform                  | 1                       | U |
| 107-06-2   | 1,2-Dichloroethane          | 5                       |   |
| 78-93-3    | 2-Butanone                  | 5                       | U |
| 74-97-5    | Bromochloromethane          | 1                       | U |
| 71-55-6    | 1,1,1-Trichloroethane       | 1                       | U |
| 56-23-5    | Carbon tetrachloride        | 4                       |   |
| 75-27-4    | Bromodichloromethane        | 1                       | U |
| 78-87-5    | 1,2-Dichloropropane         | 4                       |   |
| 10061-01-5 | cis-1,3-Dichloropropene     | 4                       |   |
| 79-01-6    | Trichloroethene             | 4                       |   |
| 124-48-1   | Dibromochloromethane        | 1                       | U |
| 79-00-5    | 1,1,2-Trichloroethane       | 4                       |   |
| 71-43-2    | Benzene                     | 5                       |   |
| 10061-02-6 | trans-1,3-Dichloropropene   | 1                       | U |
| 75-25-2    | Bromoform                   | 4                       |   |
| 108-10-1   | 4-Methyl-2-pentanone        | 5                       | U |
| 591-78-6   | 2-Hexanone                  | 5                       | U |
| 127-18-4   | Tetrachloroethene           | 4                       |   |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 1                       | U |
| 106-93-4   | 1,2-Dibromoethane           | 4                       |   |
| 108-88-3   | Toluene                     | 1                       | U |
| 108-90-7   | Chlorobenzene               | 1                       | U |
| 100-41-4   | Ethylbenzene                | 1                       | U |
| 100-42-5   | Styrene                     | 1                       | U |
| 1330-20-7  | Xylenes (total)             | 1                       | U |
| 541-73-1   | 1,3-Dichlorobenzene         | 1                       | U |
| 106-46-7   | 1,4-Dichlorobenzene         | 3                       |   |
| 95-50-1    | 1,2-Dichlorobenzene         | 1                       | U |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | 1                       | U |
| 120-82-1   | 1,2,4-Trichlorobenzene      | 1                       | U |

2LCB  
 LOW CONC. WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: EDCG0

|    | EPA<br>SAMPLE NO. | NBZ<br>%REC # | FBP<br>%REC # | TPH<br>%REC # | PHL<br>%REC # | 2FP<br>%REC # | TBP<br>%REC # | OTHER | TOT<br>OUT |
|----|-------------------|---------------|---------------|---------------|---------------|---------------|---------------|-------|------------|
| 01 | SBLK39            | 83            | 86            | 94            | 75            | 82            | 92            |       | 0          |
| 02 | SLCS70            | 81            | 81            | 97            | 79            | 81            | 95            |       | 0          |
| 03 | EDCG0             | 78            | 79            | 94            | 76            | 83            | 93            |       | 0          |
| 04 | EDCG2             | 79            | 82            | 94            | 77            | 82            | 89            |       | 0          |
| 05 | EDCG4             | 70            | 68            | 82            | 66            | 76            | 84            |       | 0          |
| 06 | EDCG5             | 86            | 89            | 100           | 84            | 93            | 106           |       | 0          |
| 07 | EDCG6             | 79            | 81            | 99            | 76            | 85            | 96            |       | 0          |
| 08 | EDCG7             | 81            | 79            | 88            | 74            | 84            | 85            |       | 0          |
| 09 | EDCG8             | 82            | 86            | 98            | 77            | 85            | 98            |       | 0          |
| 10 | EDCG9             | 85            | 84            | 95            | 83            | 91            | 97            |       | 0          |
| 11 | EOOF8             | 55            | 55            | 63            | 54            | 50            | 65            |       | 0          |
| 12 | EOOF9             | 70            | 69            | 40            | 70            | 59            | 92            |       | 0          |
| 13 | EOOFA             | 72            | 75            | 78            | 76            | 73            | 89            |       | 0          |
| 14 | EOOFB             | 59            | 55            | 71            | 65            | 62            | 87            |       | 0          |
| 15 | EOOFC             | 78            | 75            | 73            | 85            | 79            | 78            |       | 0          |
| 16 | EOOFE             | 83            | 72            | 64            | 88            | 86            | 79            |       | 0          |
| 17 |                   |               |               |               |               |               |               |       |            |
| 18 |                   |               |               |               |               |               |               |       |            |
| 19 |                   |               |               |               |               |               |               |       |            |
| 20 |                   |               |               |               |               |               |               |       |            |
| 21 |                   |               |               |               |               |               |               |       |            |
| 22 |                   |               |               |               |               |               |               |       |            |
| 23 |                   |               |               |               |               |               |               |       |            |
| 24 |                   |               |               |               |               |               |               |       |            |
| 25 |                   |               |               |               |               |               |               |       |            |
| 26 |                   |               |               |               |               |               |               |       |            |
| 27 |                   |               |               |               |               |               |               |       |            |
| 28 |                   |               |               |               |               |               |               |       |            |
| 29 |                   |               |               |               |               |               |               |       |            |
| 30 |                   |               |               |               |               |               |               |       |            |

QC LIMITS

%REC

NBZ = Nitrobenzene-d5 (23-120)  
 FBP = 2-Fluorobiphenyl (30-115)  
 TPH = Terphenyl-d14 (18-140)  
 PHL = Phenol-d5 (15-115)  
 2FP = 2-Fluorophenol (15-121)  
 TBP = 2,4,6-Tribromophenol (15-130)

# Column to be used to flag recovery values.

\* Values outside of contract required QC limits.

D Surrogate diluted out.

3LCB  
 LOW CONC. WATER SEMIVOLATILE LAB CONTROL SAMPLE RECOVERY

EPA SAMPLE NO.

SLCS70

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004  
 Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: EDCG0  
 Lab Sample ID: SVOL602      LCS Lot No.:  
 Lab File ID: H1011      Date Extracted: 05/03/00  
 LCS Aliquot: 1000      (uL)      Date Analyzed: 05/12/00  
 Concentrated Extract Volume: 1000      (uL)-      Dilution Factor: 1.0  
 Injection Volume: 1.0      (uL)

| COMPOUND                   | AMOUNT<br>ADDED<br>(ng) | AMOUNT<br>RECOVERED<br>(ng) | %REC # | QC<br>LIMITS |
|----------------------------|-------------------------|-----------------------------|--------|--------------|
| Phenol                     | 40000                   | 30000                       | 75     | 40-120       |
| bis(2-Chloroethyl) ether   | 20000                   | 17000                       | 85     | 50-110       |
| 2-Chlorophenol             | 40000                   | 33000                       | 82     | 50-110       |
| N-Nitroso-di-n-propylamine | 20000                   | 16000                       | 80     | 30-110       |
| Hexachloroethane           | 20000                   | 9000                        | 45     | 20-110       |
| Isophorone                 | 20000                   | 12000                       | 60     | 50-110       |
| Naphthalene                | 20000                   | 16000                       | 80     | 30-110       |
| 4-Chloroaniline            | 40000                   | 28000                       | 70     | 10-120       |
| 2,4,6-Trichlorophenol      | 40000                   | 33000                       | 82     | 40-120       |
| 2,4-Dinitrotoluene         | 20000                   | 12000                       | 60     | 30-120       |
| Diethylphthalate           | 20000                   | 14000                       | 70     | 50-120       |
| N-Nitrosodiphenylamine     | 20000                   | 14000                       | 70     | 30-110       |
| Hexachlorobenzene          | 20000                   | 14000                       | 70     | 40-120       |
| Benzo(a)pyrene             | 20000                   | 15000                       | 75     | 50-120       |

# Column to be used to flag LCS recovery with an asterisk.

\* Values outside of QC limits.

LCS Recovery: 0      outside limits out of 14 total.

COMMENTS: \_\_\_\_\_  
 \_\_\_\_\_

4LCB  
 LOW CONC. WATER SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLK39

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: EDCG0

Lab Sample ID: SVOB712

Date Extracted: 05/03/00

Lab File ID: H1010

Date Analyzed: 05/12/00

Instrument ID: H-HP5973

Time Analyzed: 0217

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND LCS:

|    | EPA<br>SAMPLE NO. | LAB<br>SAMPLE ID | LAB<br>FILE ID | DATE<br>ANALYZED |
|----|-------------------|------------------|----------------|------------------|
| 01 | SLCS70            | SVOL602          | H1011          | 05/12/00         |
| 02 | EDCG0             | 6040.002         | H1012          | 05/12/00         |
| 03 | EDCG2             | 6040.004         | H1013          | 05/12/00         |
| 04 | EDCG4             | 6040.005         | H1014          | 05/12/00         |
| 05 | EDCG5             | 6040.006         | H1015          | 05/12/00         |
| 06 | EDCG6             | 6040.007         | H1016          | 05/12/00         |
| 07 | EDCG7             | 6040.008         | H1017          | 05/12/00         |
| 08 | EDCG8             | 6040.010         | H1018          | 05/12/00         |
| 09 | EDCG9             | 6040.011         | H1019          | 05/12/00         |
| 10 | EEOF8             | 6040.012         | H1020          | 05/12/00         |
| 11 | EEOF9             | 6040.013         | H1021          | 05/12/00         |
| 12 | EEOF A            | 6040.014         | H1022          | 05/12/00         |
| 13 | EEOF B            | 6042.001         | H1025          | 05/12/00         |
| 14 | EEOF C            | 6042.003         | H1026          | 05/12/00         |
| 15 | EEOF E            | 6042.004         | H1027          | 05/12/00         |
| 16 | _____             | _____            | _____          | _____            |
| 17 | _____             | _____            | _____          | _____            |
| 18 | _____             | _____            | _____          | _____            |
| 19 | _____             | _____            | _____          | _____            |
| 20 | _____             | _____            | _____          | _____            |
| 21 | _____             | _____            | _____          | _____            |
| 22 | _____             | _____            | _____          | _____            |
| 23 | _____             | _____            | _____          | _____            |
| 24 | _____             | _____            | _____          | _____            |
| 25 | _____             | _____            | _____          | _____            |
| 26 | _____             | _____            | _____          | _____            |
| 27 | _____             | _____            | _____          | _____            |
| 28 | _____             | _____            | _____          | _____            |
| 29 | _____             | _____            | _____          | _____            |
| 30 | _____             | _____            | _____          | _____            |

COMMENTS: \_\_\_\_\_  
 \_\_\_\_\_

1LCB  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK39

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: EDCG0

Lab Sample ID: SVOB712

Date Received: \_\_\_\_\_

Lab File ID: H1010

Date Extracted: 05/03/00

Sample Volume: 1000 (mL)

Date Analyzed: 05/12/00

Concentrated Extract Volume: 1000 (uL)

Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

| CAS NO.  | COMPOUND                     | CONCENTRATION<br>(ug/L) | Q |
|----------|------------------------------|-------------------------|---|
| 108-95-2 | Phenol                       | 5                       | U |
| 111-44-4 | bis(2-Chloroethyl) ether     | 5                       | U |
| 95-57-8  | 2-Chlorophenol               | 5                       | U |
| 95-48-7  | 2-Methylphenol               | 5                       | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 5                       | U |
| 106-44-5 | 4-Methylphenol               | 5                       | U |
| 621-64-7 | N-Nitroso-di-n-propylamine   | 5                       | U |
| 67-72-1  | Hexachloroethane             | 5                       | U |
| 98-95-3  | Nitrobenzene                 | 5                       | U |
| 78-59-1  | Isophorone                   | 5                       | U |
| 88-75-5  | 2-Nitrophenol                | 5                       | U |
| 105-67-9 | 2,4-Dimethylphenol           | 5                       | U |
| 111-91-1 | bis(2-Chloroethoxy)methane   | 5                       | U |
| 120-83-2 | 2,4-Dichlorophenol           | 5                       | U |
| 91-20-3  | Naphthalene                  | 5                       | U |
| 106-47-8 | 4-Chloroaniline              | 5                       | U |
| 87-68-3  | Hexachlorobutadiene          | 5                       | U |
| 59-50-7  | 4-Chloro-3-methylphenol      | 5                       | U |
| 91-57-6  | 2-Methylnaphthalene          | 5                       | U |
| 77-47-4  | Hexachlorocyclopentadiene    | 5                       | U |
| 88-06-2  | 2,4,6-Trichlorophenol        | 5                       | U |
| 95-95-4  | 2,4,5-Trichlorophenol        | 20                      | U |
| 91-58-7  | 2-Chloronaphthalene          | 5                       | U |
| 88-74-4  | 2-Nitroaniline               | 20                      | U |
| 131-11-3 | Dimethylphthalate            | 5                       | U |
| 208-96-8 | Acenaphthylene               | 5                       | U |
| 606-20-2 | 2,6-Dinitrotoluene           | 5                       | U |
| 99-09-2  | 3-Nitroaniline               | 20                      | U |
| 83-32-9  | Acenaphthene                 | 5                       | U |

1LCC  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK39

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: EDCG0

Lab Sample ID: SVOB712

Date Received: \_\_\_\_\_

Lab File ID: H1010

Date Extracted: 05/03/00

Sample Volume: 1000 (mL)

Date Analyzed: 05/12/00

Concentrated Extract Volume: 1000 (uL)

Dilution Factor: 1.0

Injection Volume: 1 (uL)

| CAS NO.   | COMPOUND                   | CONCENTRATION<br>(ug/L) | Q |
|-----------|----------------------------|-------------------------|---|
| 51-28-5   | 2,4-Dinitrophenol          | 20                      | U |
| 100-02-7  | 4-Nitrophenol              | 20                      | U |
| 132-64-9  | Dibenzofuran               | 5                       | U |
| 121-14-2  | 2,4-Dinitrotoluene         | 5                       | U |
| 84-66-2   | Diethylphthalate           | 5                       | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 5                       | U |
| 86-73-7   | Fluorene                   | 5                       | U |
| 100-01-6  | 4-Nitroaniline             | 20                      | U |
| 534-52-1  | 4,6-Dinitro-2-methylphenol | 20                      | U |
| 86-30-6   | N-Nitrosodiphenylamine (1) | 5                       | U |
| 101-55-3  | 4-Bromophenyl-phenylether  | 5                       | U |
| 118-74-1  | Hexachlorobenzene          | 5                       | U |
| 87-86-5   | Pentachlorophenol          | 20                      | U |
| 85-01-8   | Phenanthrene               | 5                       | U |
| 120-12-7  | Anthracene                 | 5                       | U |
| 84-74-2   | Di-n-butylphthalate        | 5                       | U |
| 206-44-0  | Fluoranthene               | 5                       | U |
| 129-00-0  | Pyrene                     | 5                       | U |
| 85-68-7   | Butylbenzylphthalate       | 5                       | U |
| 91-94-1   | 3,3'-Dichlorobenzidine     | 5                       | U |
| 56-55-3   | Benzo(a)anthracene         | 5                       | U |
| 218-01-9  | Chrysene                   | 5                       | U |
| 117-81-7  | bis(2-Ethylhexyl)phthalate | 5                       | U |
| 117-84-0  | Di-n-octylphthalate        | 5                       | U |
| 205-99-2  | Benzo(b)fluoranthene       | 5                       | U |
| 207-08-9  | Benzo(k)fluoranthene       | 5                       | U |
| 50-32-8   | Benzo(a)pyrene             | 5                       | U |
| 193-39-5  | Indeno(1,2,3-cd)Pyrene     | 5                       | U |
| 53-70-3   | Dibenz(a,h)anthracene      | 5                       | U |
| 191-24-2  | Benzo(g,h,i)perylene       | 5                       | U |

(1) - Cannot be separated from Diphenylamine

1LCF  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SBLK39

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004

Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: EDCG0

Lab Sample ID: SVOB712      Date Received: \_\_\_\_\_

Lab File ID: H1010      Date Extracted: 05/03/00

Sample Volume: 1000 (mL)      Date Analyzed: 05/12/00

Concentrated Extract Volume: 1000 (uL)      Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

Number TICs found:      0

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC.<br>(ug/L) | Q |
|------------|---------------|----|----------------------|---|
| 1.         |               |    |                      |   |
| 2.         |               |    |                      |   |
| 3.         |               |    |                      |   |
| 4.         |               |    |                      |   |
| 5.         |               |    |                      |   |
| 6.         |               |    |                      |   |
| 7.         |               |    |                      |   |
| 8.         |               |    |                      |   |
| 9.         |               |    |                      |   |
| 10.        |               |    |                      |   |
| 11.        |               |    |                      |   |
| 12.        |               |    |                      |   |
| 13.        |               |    |                      |   |
| 14.        |               |    |                      |   |
| 15.        |               |    |                      |   |
| 16.        |               |    |                      |   |
| 17.        |               |    |                      |   |
| 18.        |               |    |                      |   |
| 19.        |               |    |                      |   |
| 20.        |               |    |                      |   |
| 21.        |               |    |                      |   |
| 22.        |               |    |                      |   |
| 23.        |               |    |                      |   |
| 24.        |               |    |                      |   |
| 25.        |               |    |                      |   |
| 26.        |               |    |                      |   |
| 27.        |               |    |                      |   |
| 28.        |               |    |                      |   |
| 29.        |               |    |                      |   |
| 30.        |               |    |                      |   |

1LCB  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00F8

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004  
 Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: EDCG0  
 Lab Sample ID: 6040.012      Date Received: 04/28/00  
 Lab File ID: H1020      Date Extracted: 05/03/00  
 Sample Volume: 1000 (mL)      Date Analyzed: 05/12/00  
 Concentrated Extract Volume: 1000 (uL)      Dilution Factor: 1.0  
 Injection Volume: 1.0 (uL)

| CAS NO.  | COMPOUND                     | CONCENTRATION<br>(ug/L) | Q |
|----------|------------------------------|-------------------------|---|
| 108-95-2 | Phenol                       | 5                       | U |
| 111-44-4 | bis(2-Chloroethyl) ether     | 5                       | U |
| 95-57-8  | 2-Chlorophenol               | 5                       | U |
| 95-48-7  | 2-Methylphenol               | 5                       | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 5                       | U |
| 106-44-5 | 4-Methylphenol               | 5                       | U |
| 621-64-7 | N-Nitroso-di-n-propylamine   | 5                       | U |
| 67-72-1  | Hexachloroethane             | 5                       | U |
| 98-95-3  | Nitrobenzene                 | 5                       | U |
| 78-59-1  | Isophorone                   | 5                       | U |
| 88-75-5  | 2-Nitrophenol                | 5                       | U |
| 105-67-9 | 2,4-Dimethylphenol           | 5                       | U |
| 111-91-1 | bis(2-Chloroethoxy)methane   | 5                       | U |
| 120-83-2 | 2,4-Dichlorophenol           | 5                       | U |
| 91-20-3  | Naphthalene                  | 5                       | U |
| 106-47-8 | 4-Chloroaniline              | 5                       | U |
| 87-68-3  | Hexachlorobutadiene          | 5                       | U |
| 59-50-7  | 4-Chloro-3-methylphenol      | 5                       | U |
| 91-57-6  | 2-Methylnaphthalene          | 5                       | U |
| 77-47-4  | Hexachlorocyclopentadiene    | 5                       | U |
| 88-06-2  | 2,4,6-Trichlorophenol        | 5                       | U |
| 95-95-4  | 2,4,5-Trichlorophenol        | 20                      | U |
| 91-58-7  | 2-Chloronaphthalane          | 5                       | U |
| 88-74-4  | 2-Nitroaniline               | 20                      | U |
| 131-11-3 | Dimethylphthalate            | 5                       | U |
| 208-96-8 | Acenaphthylene               | 5                       | U |
| 606-20-2 | 2,6-Dinitrotoluene           | 5                       | U |
| 99-09-2  | 3-Nitroaniline               | 20                      | U |
| 83-32-9  | Acenaphthene                 | 5                       | U |

1LCC  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EOOF8

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004  
 Lab Code: PDP Case No.: 27986 SAS No.: \_\_\_\_\_ SDG No.: EDCG0  
 Lab Sample ID: 6040.012 Date Received: 04/28/00  
 Lab File ID: H1020 Date Extracted: 05/03/00  
 Sample Volume: 1000 (mL) Date Analyzed: 05/12/00  
 Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0  
 Injection Volume: 1 (uL)

| CAS NO.   | COMPOUND                   | CONCENTRATION<br>(ug/L) | Q |
|-----------|----------------------------|-------------------------|---|
| 51-28-5   | 2,4-Dinitrophenol          | 20                      | U |
| 100-02-7  | 4-Nitrophenol              | 20                      | U |
| 132-64-9  | Dibenzofuran               | 5                       | U |
| 121-14-2  | 2,4-Dinitrotoluene         | 5                       | U |
| 84-66-2   | Diethylphthalate           | 5                       | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 5                       | U |
| 86-73-7   | Fluorene                   | 5                       | U |
| 100-01-6  | 4-Nitroaniline             | 20                      | U |
| 534-52-1  | 4,6-Dinitro-2-methylphenol | 20                      | U |
| 86-30-6   | N-Nitrosodiphenylamine (1) | 5                       | U |
| 101-55-3  | 4-Bromophenyl-phenylether  | 5                       | U |
| 118-74-1  | Hexachlorobenzene          | 5                       | U |
| 87-86-5   | Pentachlorophenol          | 20                      | U |
| 85-01-8   | Phenanthrene               | 5                       | U |
| 120-12-7  | Anthracene                 | 5                       | U |
| 84-74-2   | Di-n-butylphthalate        | 5                       | U |
| 206-44-0  | Fluoranthene               | 5                       | U |
| 129-00-0  | Pyrene                     | 5                       | U |
| 85-68-7   | Butylbenzylphthalate       | 5                       | U |
| 91-94-1   | 3,3'-Dichlorobenzidine     | 5                       | U |
| 56-55-3   | Benzo(a)anthracene         | 5                       | U |
| 218-01-9  | Chrysene                   | 5                       | U |
| 117-81-7  | bis(2-Ethylhexyl)phthalate | 4                       | J |
| 117-84-0  | Di-n-octylphthalate        | 5                       | U |
| 205-99-2  | Benzo(b)fluoranthene       | 5                       | U |
| 207-08-9  | Benzo(k)fluoranthene       | 5                       | U |
| 50-32-8   | Benzo(a)pyrene             | 5                       | U |
| 193-39-5  | Indeno(1,2,3-cd)Pyrene     | 5                       | U |
| 53-70-3   | Dibenz(a,h)anthracene      | 5                       | U |
| 191-24-2  | Benzo(g,h,i)perylene       | 5                       | U |

(1) - Cannot be separated from Diphenylamine

1LCF  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00F8

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004

Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: EDCG0

Lab Sample ID: 6040.012      Date Received: 04/28/00

Lab File ID: H1020      Date Extracted: 05/03/00

Sample Volume: 1000 (mL)      Date Analyzed: 05/12/00

Concentrated Extract Volume: 1000 (uL)      Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

Number TICs found:      0

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC.<br>(ug/L) | Q |
|------------|---------------|----|----------------------|---|
| 1.         |               |    |                      |   |
| 2.         |               |    |                      |   |
| 3.         |               |    |                      |   |
| 4.         |               |    |                      |   |
| 5.         |               |    |                      |   |
| 6.         |               |    |                      |   |
| 7.         |               |    |                      |   |
| 8.         |               |    |                      |   |
| 9.         |               |    |                      |   |
| 10.        |               |    |                      |   |
| 11.        |               |    |                      |   |
| 12.        |               |    |                      |   |
| 13.        |               |    |                      |   |
| 14.        |               |    |                      |   |
| 15.        |               |    |                      |   |
| 16.        |               |    |                      |   |
| 17.        |               |    |                      |   |
| 18.        |               |    |                      |   |
| 19.        |               |    |                      |   |
| 20.        |               |    |                      |   |
| 21.        |               |    |                      |   |
| 22.        |               |    |                      |   |
| 23.        |               |    |                      |   |
| 24.        |               |    |                      |   |
| 25.        |               |    |                      |   |
| 26.        |               |    |                      |   |
| 27.        |               |    |                      |   |
| 28.        |               |    |                      |   |
| 29.        |               |    |                      |   |
| 30.        |               |    |                      |   |

1LCB  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00F9

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004  
 Lab Code: PDP Case No.: 27986 SAS No.: \_\_\_\_\_ SDG No.: EDCG0  
 Lab Sample ID: 6040.013 Date Received: 04/28/00  
 Lab File ID: H1021 Date Extracted: 05/03/00  
 Sample Volume: 1000 (mL) Date Analyzed: 05/12/00  
 Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0  
 Injection Volume: 1.0 (uL)

| CAS NO.  | COMPOUND                     | CONCENTRATION<br>(ug/L) | Q |
|----------|------------------------------|-------------------------|---|
| 108-95-2 | Phenol                       | 5                       | U |
| 111-44-4 | bis(2-Chloroethyl) ether     | 5                       | U |
| 95-57-8  | 2-Chlorophenol               | 5                       | U |
| 95-48-7  | 2-Methylphenol               | 5                       | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 5                       | U |
| 106-44-5 | 4-Methylphenol               | 5                       | U |
| 621-64-7 | N-Nitroso-di-n-propylamine   | 5                       | U |
| 67-72-1  | Hexachloroethane             | 5                       | U |
| 98-95-3  | Nitrobenzene                 | 5                       | U |
| 78-59-1  | Isophorone                   | 5                       | U |
| 88-75-5  | 2-Nitrophenol                | 5                       | U |
| 105-67-9 | 2,4-Dimethylphenol           | 5                       | U |
| 111-91-1 | bis(2-Chloroethoxy)methane   | 5                       | U |
| 120-83-2 | 2,4-Dichlorophenol           | 5                       | U |
| 91-20-3  | Naphthalene                  | 5                       | U |
| 106-47-8 | 4-Chloroaniline              | 5                       | U |
| 87-68-3  | Hexachlorobutadiene          | 5                       | U |
| 59-50-7  | 4-Chloro-3-methylphenol      | 5                       | U |
| 91-57-6  | 2-Methylnaphthalene          | 5                       | U |
| 77-47-4  | Hexachlorocyclopentadiene    | 5                       | U |
| 88-06-2  | 2,4,6-Trichlorophenol        | 5                       | U |
| 95-95-4  | 2,4,5-Trichlorophenol        | 20                      | U |
| 91-58-7  | 2-Chloronaphthalene          | 5                       | U |
| 88-74-4  | 2-Nitroaniline               | 20                      | U |
| 131-11-3 | Dimethylphthalate            | 5                       | U |
| 208-96-8 | Acenaphthylene               | 5                       | U |
| 606-20-2 | 2,6-Dinitrotoluene           | 5                       | U |
| 99-09-2  | 3-Nitroaniline               | 20                      | U |
| 83-32-9  | Acenaphthene                 | 5                       | U |

1LCC  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EOOF9

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004  
 Lab Code: PDP Case No.: 27986 SAS No.: \_\_\_\_\_ SDG No.: EDCG0  
 Lab Sample ID: 6040.013 Date Received: 04/28/00  
 Lab File ID: H1021 Date Extracted: 05/03/00  
 Sample Volume: 1000 (mL) Date Analyzed: 05/12/00  
 Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0  
 Injection Volume: 1 (uL)

| CAS NO.   | COMPOUND                   | CONCENTRATION<br>(ug/L) | Q |
|-----------|----------------------------|-------------------------|---|
| 51-28-5   | 2,4-Dinitrophenol          | 20                      | U |
| 100-02-7  | 4-Nitrophenol              | 20                      | U |
| 132-64-9  | Dibenzofuran               | 5                       | U |
| 121-14-2  | 2,4-Dinitrotoluene         | 5                       | U |
| 84-66-2   | Diethylphthalate           | 5                       | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 5                       | U |
| 86-73-7   | Fluorene                   | 5                       | U |
| 100-01-6  | 4-Nitroaniline             | 20                      | U |
| 534-52-1  | 4,6-Dinitro-2-methylphenol | 20                      | U |
| 86-30-6   | N-Nitrosodiphenylamine (1) | 5                       | U |
| 101-55-3  | 4-Bromophenyl-phenylether  | 5                       | U |
| 118-74-1  | Hexachlorobenzene          | 5                       | U |
| 87-86-5   | Pentachlorophenol          | 20                      | U |
| 85-01-8   | Phenanthrene               | 5                       | U |
| 120-12-7  | Anthracene                 | 5                       | U |
| 84-74-2   | Di-n-butylphthalate        | 5                       | U |
| 206-44-0  | Fluoranthene               | 5                       | U |
| 129-00-0  | Pyrene                     | 5                       | U |
| 85-68-7   | Butylbenzylphthalate       | 5                       | U |
| 91-94-1   | 3,3'-Dichlorobenzidine     | 5                       | U |
| 56-55-3   | Benzo(a)anthracene         | 5                       | U |
| 218-01-9  | Chrysene                   | 5                       | U |
| 117-81-7  | bis(2-Ethylhexyl)phthalate | 7                       | U |
| 117-84-0  | Di-n-octylphthalate        | 5                       | U |
| 205-99-2  | Benzo(b)fluoranthene       | 5                       | U |
| 207-08-9  | Benzo(k)fluoranthene       | 5                       | U |
| 50-32-8   | Benzo(a)pyrene             | 5                       | U |
| 193-39-5  | Indeno(1,2,3-cd)Pyrene     | 5                       | U |
| 53-70-3   | Dibenz(a,h)anthracene      | 5                       | U |
| 191-24-2  | Benzo(g,h,i)perylene       | 5                       | U |

(1) - Cannot be separated from Diphenylamine

1LCF  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00F9

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: EDCG0

Lab Sample ID: 6040.013

Date Received: 04/28/00

Lab File ID: H1021

Date Extracted: 05/03/00

Sample Volume: 1000 (mL)

Date Analyzed: 05/12/00

Concentrated Extract Volume: 1000 (uL)

Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

Number TICs found: 2

| CAS NUMBER    | COMPOUND NAME   | RT    | EST. CONC.<br>(ug/L) | Q  |
|---------------|-----------------|-------|----------------------|----|
| 1. 000143-07- | Dodecanoic acid | 19.88 | 23                   | JN |
| 2.            | Unknown         | 24.89 | 16                   | J  |
| 3.            |                 |       |                      |    |
| 4.            |                 |       |                      |    |
| 5.            |                 |       |                      |    |
| 6.            |                 |       |                      |    |
| 7.            |                 |       |                      |    |
| 8.            |                 |       |                      |    |
| 9.            |                 |       |                      |    |
| 10.           |                 |       |                      |    |
| 11.           |                 |       |                      |    |
| 12.           |                 |       |                      |    |
| 13.           |                 |       |                      |    |
| 14.           |                 |       |                      |    |
| 15.           |                 |       |                      |    |
| 16.           |                 |       |                      |    |
| 17.           |                 |       |                      |    |
| 18.           |                 |       |                      |    |
| 19.           |                 |       |                      |    |
| 20.           |                 |       |                      |    |
| 21.           |                 |       |                      |    |
| 22.           |                 |       |                      |    |
| 23.           |                 |       |                      |    |
| 24.           |                 |       |                      |    |
| 25.           |                 |       |                      |    |
| 26.           |                 |       |                      |    |
| 27.           |                 |       |                      |    |
| 28.           |                 |       |                      |    |
| 29.           |                 |       |                      |    |
| 30.           |                 |       |                      |    |

1LCB  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EOOFA

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004

Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: EDCG0

Lab Sample ID: 6040.014      Date Received: 04/28/00

Lab File ID: H1022      Date Extracted: 05/03/00

Sample Volume: 1000 (mL)      Date Analyzed: 05/12/00

Concentrated Extract Volume: 1000 (uL)      Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

| CAS NO.  | COMPOUND                     | CONCENTRATION<br>(ug/L) | Q |
|----------|------------------------------|-------------------------|---|
| 108-95-2 | Phenol                       | 5                       | U |
| 111-44-4 | bis(2-Chloroethyl) ether     | 5                       | U |
| 95-57-8  | 2-Chlorophenol               | 5                       | U |
| 95-48-7  | 2-Methylphenol               | 5                       | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 5                       | U |
| 106-44-5 | 4-Methylphenol               | 5                       | U |
| 621-64-7 | N-Nitroso-di-n-propylamine   | 5                       | U |
| 67-72-1  | Hexachloroethane             | 5                       | U |
| 98-95-3  | Nitrobenzene                 | 5                       | U |
| 78-59-1  | Isophorone                   | 5                       | U |
| 88-75-5  | 2-Nitrophenol                | 5                       | U |
| 105-67-9 | 2,4-Dimethylphenol           | 5                       | U |
| 111-91-1 | bis(2-Chloroethoxy)methane   | 5                       | U |
| 120-83-2 | 2,4-Dichlorophenol           | 5                       | U |
| 91-20-3  | Naphthalene                  | 5                       | U |
| 106-47-8 | 4-Chloroaniline              | 5                       | U |
| 87-68-3  | Hexachlorobutadiene          | 5                       | U |
| 59-50-7  | 4-Chloro-3-methylphenol      | 5                       | U |
| 91-57-6  | 2-Methylnaphthalene          | 5                       | U |
| 77-47-4  | Hexachlorocyclopentadiene    | 5                       | U |
| 88-06-2  | 2,4,6-Trichlorophenol        | 5                       | U |
| 95-95-4  | 2,4,5-Trichlorophenol        | 20                      | U |
| 91-58-7  | 2-Chloronaphthalene          | 5                       | U |
| 88-74-4  | 2-Nitroaniline               | 20                      | U |
| 131-11-3 | Dimethylphthalate            | 5                       | U |
| 208-96-8 | Acenaphthylene               | 5                       | U |
| 606-20-2 | 2,6-Dinitrotoluene           | 5                       | U |
| 99-09-2  | 3-Nitroaniline               | 20                      | U |
| 83-32-9  | Acenaphthene                 | 5                       | U |

1LCC  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EOOFA

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004  
 Lab Code: PDP Case No.: 27986 SAS No.: \_\_\_\_\_ SDG No.: EDCG0  
 Lab Sample ID: 6040.014 Date Received: 04/28/00  
 Lab File ID: H1022 Date Extracted: 05/03/00  
 Sample Volume: 1000 (mL) Date Analyzed: 05/12/00  
 Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0  
 Injection Volume: 1 (uL)

| CAS NO.        | COMPOUND                   | CONCENTRATION<br>(ug/L) | Q |
|----------------|----------------------------|-------------------------|---|
| 51-28-5-----   | 2,4-Dinitrophenol          | 20                      | U |
| 100-02-7-----  | 4-Nitrophenol              | 20                      | U |
| 132-64-9-----  | Dibenzofuran               | 5                       | U |
| 121-14-2-----  | 2,4-Dinitrotoluene         | 5                       | U |
| 84-66-2-----   | Diethylphthalate           | 5                       | U |
| 7005-72-3----- | 4-Chlorophenyl-phenylether | 5                       | U |
| 86-73-7-----   | Fluorene                   | 5                       | U |
| 100-01-6-----  | 4-Nitroaniline             | 20                      | U |
| 534-52-1-----  | 4,6-Dinitro-2-methylphenol | 20                      | U |
| 86-30-6-----   | N-Nitrosodiphenylamine (1) | 5                       | U |
| 101-55-3-----  | 4-Bromophenyl-phenylether  | 5                       | U |
| 118-74-1-----  | Hexachlorobenzene          | 5                       | U |
| 87-86-5-----   | Pentachlorophenol          | 20                      | U |
| 85-01-8-----   | Phenanthrene               | 5                       | U |
| 120-12-7-----  | Anthracene                 | 5                       | U |
| 84-74-2-----   | Di-n-butylphthalate        | 5                       | U |
| 206-44-0-----  | Fluoranthene               | 5                       | U |
| 129-00-0-----  | Pyrene                     | 5                       | U |
| 85-68-7-----   | Butylbenzylphthalate       | 5                       | U |
| 91-94-1-----   | 3,3'-Dichlorobenzidine     | 5                       | U |
| 56-55-3-----   | Benzo(a)anthracene         | 5                       | U |
| 218-01-9-----  | Chrysene                   | 5                       | U |
| 117-81-7-----  | bis(2-Ethylhexyl)phthalate | 5                       | U |
| 117-84-0-----  | Di-n-octylphthalate        | 5                       | U |
| 205-99-2-----  | Benzo(b)fluoranthene       | 5                       | U |
| 207-08-9-----  | Benzo(k)fluoranthene       | 5                       | U |
| 50-32-8-----   | Benzo(a)pyrene             | 5                       | U |
| 193-39-5-----  | Indeno(1,2,3-cd)Pyrene     | 5                       | U |
| 53-70-3-----   | Dibenz(a,h)anthracene      | 5                       | U |
| 191-24-2-----  | Benzo(g,h,i)perylene       | 5                       | U |

(1) - Cannot be separated from Diphenylamine

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EOOFA

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: EDCG0

Lab Sample ID: 6040.014

Date Received: 04/28/00

Lab File ID: H1022

Date Extracted: 05/03/00

Sample Volume: 1000 (mL)

Date Analyzed: 05/12/00

Concentrated Extract Volume: 1000 (uL)

Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

Number TICs found: 3

| CAS NUMBER    | COMPOUND NAME   | RT    | EST. CONC.<br>(ug/L) | Q  |
|---------------|-----------------|-------|----------------------|----|
| 1. 000143-07- | Dodecanoic acid | 19.90 | 17                   | JN |
| 2. _____      | Unknown         | 22.75 | 11                   | J  |
| 3. _____      | Unknown         | 24.90 | 18                   | J  |
| 4. _____      |                 |       |                      |    |
| 5. _____      |                 |       |                      |    |
| 6. _____      |                 |       |                      |    |
| 7. _____      |                 |       |                      |    |
| 8. _____      |                 |       |                      |    |
| 9. _____      |                 |       |                      |    |
| 10. _____     |                 |       |                      |    |
| 11. _____     |                 |       |                      |    |
| 12. _____     |                 |       |                      |    |
| 13. _____     |                 |       |                      |    |
| 14. _____     |                 |       |                      |    |
| 15. _____     |                 |       |                      |    |
| 16. _____     |                 |       |                      |    |
| 17. _____     |                 |       |                      |    |
| 18. _____     |                 |       |                      |    |
| 19. _____     |                 |       |                      |    |
| 20. _____     |                 |       |                      |    |
| 21. _____     |                 |       |                      |    |
| 22. _____     |                 |       |                      |    |
| 23. _____     |                 |       |                      |    |
| 24. _____     |                 |       |                      |    |
| 25. _____     |                 |       |                      |    |
| 26. _____     |                 |       |                      |    |
| 27. _____     |                 |       |                      |    |
| 28. _____     |                 |       |                      |    |
| 29. _____     |                 |       |                      |    |
| 30. _____     |                 |       |                      |    |

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EOOFB

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004

Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: EDCG0

Lab Sample ID: 6042.001      Date Received: 04/29/00

Lab File ID: H1025      Date Extracted: 05/03/00

Sample Volume: 1000 (mL)      Date Analyzed: 05/12/00

Concentrated Extract Volume: 1000 (uL)      Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

| CAS NO.  | COMPOUND                     | CONCENTRATION (ug/L) | Q |
|----------|------------------------------|----------------------|---|
| 108-95-2 | Phenol                       | 5                    | U |
| 111-44-4 | bis(2-Chloroethyl) ether     | 5                    | U |
| 95-57-8  | 2-Chlorophenol               | 5                    | U |
| 95-48-7  | 2-Methylphenol               | 5                    | U |
| 103-00-1 | 2,2'-oxybis(1-Chloropropane) | 5                    | U |
| 106-44-5 | 4-Methylphenol               | 5                    | U |
| 621-64-7 | N-Nitroso-di-n-propylamine   | 5                    | U |
| 67-72-1  | Hexachloroethane             | 5                    | U |
| 98-95-3  | Nitrobenzene                 | 5                    | U |
| 78-59-1  | Isophorone                   | 5                    | U |
| 88-75-5  | 2-Nitrophenol                | 5                    | U |
| 105-67-9 | 2,4-Dimethylphenol           | 5                    | U |
| 111-91-1 | bis(2-Chloroethoxy)methane   | 5                    | U |
| 120-83-2 | 2,4-Dichlorophenol           | 5                    | U |
| 91-20-3  | Naphthalene                  | 5                    | U |
| 106-47-8 | 4-Chloroaniline              | 5                    | U |
| 87-68-3  | Hexachlorobutadiene          | 5                    | U |
| 59-50-7  | 4-Chloro-3-methylphenol      | 5                    | U |
| 91-57-6  | 2-Methylnaphthalene          | 5                    | U |
| 77-47-4  | Hexachlorocyclopentadiene    | 5                    | U |
| 88-06-2  | 2,4,6-Trichlorophenol        | 5                    | U |
| 95-95-4  | 2,4,5-Trichlorophenol        | 20                   | U |
| 91-58-7  | 2-Chloronaphthalene          | 5                    | U |
| 88-74-4  | 2-Nitroaniline               | 20                   | U |
| 131-11-3 | Dimethylphthalate            | 5                    | U |
| 208-96-8 | Acenaphthylene               | 5                    | U |
| 606-20-2 | 2,6-Dinitrotoluene           | 5                    | U |
| 99-09-2  | 3-Nitroaniline               | 20                   | U |
| 83-32-9  | Acenaphthene                 | 5                    | U |

1LCC  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EOOFB

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: EDCG0

Lab Sample ID: 6042.001

Date Received: 04/29/00

Lab File ID: H1025

Date Extracted: 05/03/00

Sample Volume: 1000 (mL)

Date Analyzed: 05/12/00

Concentrated Extract Volume: 1000 (uL)

Dilution Factor: 1.0

Injection Volume: 1 (uL)

| CAS NO.   | COMPOUND                   | CONCENTRATION<br>(ug/L) | Q |
|-----------|----------------------------|-------------------------|---|
| 51-28-5   | 2,4-Dinitrophenol          | 20                      | U |
| 100-02-7  | 4-Nitrophenol              | 20                      | U |
| 132-64-9  | Dibenzofuran               | 5                       | U |
| 121-14-2  | 2,4-Dinitrotoluene         | 5                       | U |
| 84-66-2   | Diethylphthalate           | 5                       | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 5                       | U |
| 86-73-7   | Fluorene                   | 5                       | U |
| 100-01-6  | 4-Nitroaniline             | 20                      | U |
| 534-52-1  | 4,6-Dinitro-2-methylphenol | 20                      | U |
| 86-30-6   | N-Nitrosodiphenylamine (1) | 5                       | U |
| 101-55-3  | 4-Bromophenyl-phenylether  | 5                       | U |
| 118-74-1  | Hexachlorobenzene          | 5                       | U |
| 87-86-5   | Pentachlorophenol          | 20                      | U |
| 85-01-8   | Phenanthrene               | 5                       | U |
| 120-12-7  | Anthracene                 | 5                       | U |
| 84-74-2   | Di-n-butylphthalate        | 5                       | U |
| 206-44-0  | Fluoranthene               | 5                       | U |
| 129-00-0  | Pyrene                     | 5                       | U |
| 85-68-7   | Butylbenzylphthalate       | 5                       | U |
| 91-94-1   | 3,3'-Dichlorobenzidine     | 5                       | U |
| 56-55-3   | Benzo(a)anthracene         | 5                       | U |
| 218-01-9  | Chrysene                   | 5                       | U |
| 117-81-7  | bis(2-Ethylhexyl)phthalate | 5                       | U |
| 117-84-0  | Di-n-octylphthalate        | 5                       | U |
| 205-99-2  | Benzo(b)fluoranthene       | 5                       | U |
| 207-08-9  | Benzo(k)fluoranthene       | 5                       | U |
| 50-32-8   | Benzo(a)pyrene             | 5                       | U |
| 193-39-5  | Indeno(1,2,3-cd)Pyrene     | 5                       | U |
| 53-70-3   | Dibenz(a,h)anthracene      | 5                       | U |
| 191-24-2  | Benzo(g,h,i)perylene       | 5                       | U |

(1) - Cannot be separated from Diphenylamine

1LCF  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EOOFB

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: EDCG0

Lab Sample ID: 6042.001

Date Received: 04/29/00

Lab File ID: H1025

Date Extracted: 05/03/00

Sample Volume: 1000 (mL)

Date Analyzed: 05/12/00

Concentrated Extract Volume: 1000 (uL)

Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

Number TICs found: 1

| CAS NUMBER | COMPOUND NAME | RT    | EST. CONC.<br>(ug/L) | Q |
|------------|---------------|-------|----------------------|---|
| 1.         | Unknown       | 15.73 | 25                   | J |
| 2.         |               |       |                      |   |
| 3.         |               |       |                      |   |
| 4.         |               |       |                      |   |
| 5.         |               |       |                      |   |
| 6.         |               |       |                      |   |
| 7.         |               |       |                      |   |
| 8.         |               |       |                      |   |
| 9.         |               |       |                      |   |
| 10.        |               |       |                      |   |
| 11.        |               |       |                      |   |
| 12.        |               |       |                      |   |
| 13.        |               |       |                      |   |
| 14.        |               |       |                      |   |
| 15.        |               |       |                      |   |
| 16.        |               |       |                      |   |
| 17.        |               |       |                      |   |
| 18.        |               |       |                      |   |
| 19.        |               |       |                      |   |
| 20.        |               |       |                      |   |
| 21.        |               |       |                      |   |
| 22.        |               |       |                      |   |
| 23.        |               |       |                      |   |
| 24.        |               |       |                      |   |
| 25.        |               |       |                      |   |
| 26.        |               |       |                      |   |
| 27.        |               |       |                      |   |
| 28.        |               |       |                      |   |
| 29.        |               |       |                      |   |
| 30.        |               |       |                      |   |

1LCB  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EOOFC

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: EDCG0

Lab Sample ID: 6042.003

Date Received: 04/29/00

Lab File ID: H1026

Date Extracted: 05/03/00

Sample Volume: 1000 (mL)

Date Analyzed: 05/12/00

Concentrated Extract Volume: 1000 (uL)

Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

| CAS NO.  | COMPOUND                     | CONCENTRATION<br>(ug/L) | Q |
|----------|------------------------------|-------------------------|---|
| 108-95-2 | Phenol                       | 5                       | U |
| 111-44-4 | bis(2-Chloroethyl) ether     | 5                       | U |
| 95-57-8  | 2-Chlorophenol               | 5                       | U |
| 95-48-7  | 2-Methylphenol               | 5                       | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 5                       | U |
| 106-44-5 | 4-Methylphenol               | 5                       | U |
| 621-64-7 | N-Nitroso-di-n-propylamine   | 5                       | U |
| 67-72-1  | Hexachloroethane             | 5                       | U |
| 98-95-3  | Nitrobenzene                 | 5                       | U |
| 78-59-1  | Isophorone                   | 5                       | U |
| 88-75-5  | 2-Nitrophenol                | 5                       | U |
| 105-67-9 | 2,4-Dimethylphenol           | 5                       | U |
| 111-91-1 | bis(2-Chloroethoxy)methane   | 5                       | U |
| 120-83-2 | 2,4-Dichlorophenol           | 5                       | U |
| 91-20-3  | Naphthalene                  | 5                       | U |
| 106-47-8 | 4-Chloroaniline              | 5                       | U |
| 87-68-3  | Hexachlorobutadiene          | 5                       | U |
| 59-50-7  | 4-Chloro-3-methylphenol      | 5                       | U |
| 91-57-6  | 2-Methylnaphthalene          | 5                       | U |
| 77-47-4  | Hexachlorocyclopentadiene    | 5                       | U |
| 88-06-2  | 2,4,6-Trichlorophenol        | 5                       | U |
| 95-95-4  | 2,4,5-Trichlorophenol        | 20                      | U |
| 91-58-7  | 2-Chloronaphthalane          | 5                       | U |
| 88-74-4  | 2-Nitroaniline               | 20                      | U |
| 131-11-3 | Dimethylphthalate            | 5                       | U |
| 208-96-8 | Acenaphthylene               | 5                       | U |
| 606-20-2 | 2,6-Dinitrotoluene           | 5                       | U |
| 99-09-2  | 3-Nitroaniline               | 20                      | U |
| 83-32-9  | Acenaphthene                 | 5                       | U |

1LCC  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EOOFC

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: EDCG0

Lab Sample ID: 6042.003

Date Received: 04/29/00

Lab File ID: H1026

Date Extracted: 05/03/00

Sample Volume: 1000 (mL)

Date Analyzed: 05/12/00

Concentrated Extract Volume: 1000 (uL)

Dilution Factor: 1.0

Injection Volume: 1 (uL)

| CAS NO.   | COMPOUND                   | CONCENTRATION<br>(ug/L) | Q |
|-----------|----------------------------|-------------------------|---|
| 51-28-5   | 2,4-Dinitrophenol          | 20                      | U |
| 100-02-7  | 4-Nitrophenol              | 20                      | U |
| 132-64-9  | Dibenzofuran               | 5                       | U |
| 121-14-2  | 2,4-Dinitrotoluene         | 5                       | U |
| 84-66-2   | Diethylphthalate           | 5                       | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 5                       | U |
| 86-73-7   | Fluorene                   | 5                       | U |
| 100-01-6  | 4-Nitroaniline             | 20                      | U |
| 534-52-1  | 4,6-Dinitro-2-methylphenol | 20                      | U |
| 86-30-6   | N-Nitrosodiphenylamine (1) | 5                       | U |
| 101-55-3  | 4-Bromophenyl-phenylether  | 5                       | U |
| 118-74-1  | Hexachlorobenzene          | 5                       | U |
| 87-86-5   | Pentachlorophenol          | 20                      | U |
| 85-01-8   | Phenanthrene               | 5                       | U |
| 120-12-7  | Anthracene                 | 5                       | U |
| 84-74-2   | Di-n-butylphthalate        | 5                       | U |
| 206-44-0  | Fluoranthene               | 5                       | U |
| 129-00-0  | Pyrene                     | 5                       | U |
| 85-68-7   | Butylbenzylphthalate       | 5                       | U |
| 91-94-1   | 3,3'-Dichlorobenzidine     | 5                       | U |
| 56-55-3   | Benzo(a)anthracene         | 5                       | U |
| 218-01-9  | Chrysene                   | 5                       | U |
| 117-81-7  | bis(2-Ethylhexyl)phthalate | 5                       | U |
| 117-84-0  | Di-n-octylphthalate        | 5                       | U |
| 205-99-2  | Benzo(b)fluoranthene       | 5                       | U |
| 207-08-9  | Benzo(k)fluoranthene       | 5                       | U |
| 50-32-8   | Benzo(a)pyrene             | 5                       | U |
| 193-39-5  | Indeno(1,2,3-cd)Pyrene     | 5                       | U |
| 53-70-3   | Dibenz(a,h)anthracene      | 5                       | U |
| 191-24-2  | Benzo(g,h,i)perylene       | 5                       | U |

(1) - Cannot be separated from Diphenylamine

1LCF  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EOOFC

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004

Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: EDCG0

Lab Sample ID: 6042.003      Date Received: 04/29/00

Lab File ID: H1026      Date Extracted: 05/03/00

Sample Volume: 1000 (mL)      Date Analyzed: 05/12/00

Concentrated Extract Volume: 1000 (uL)      Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

Number TICs found:      2

| CAS NUMBER    | COMPOUND NAME            | RT    | EST. CONC.<br>(ug/L) | Q  |
|---------------|--------------------------|-------|----------------------|----|
| 1. 000540-97- | Cyclohexasiloxane, dodec | 11.42 | 16                   | JN |
| 2. _____      | Unknown                  | 12.97 | 25                   | J  |
| 3. _____      |                          |       |                      |    |
| 4. _____      |                          |       |                      |    |
| 5. _____      |                          |       |                      |    |
| 6. _____      |                          |       |                      |    |
| 7. _____      |                          |       |                      |    |
| 8. _____      |                          |       |                      |    |
| 9. _____      |                          |       |                      |    |
| 10. _____     |                          |       |                      |    |
| 11. _____     |                          |       |                      |    |
| 12. _____     |                          |       |                      |    |
| 13. _____     |                          |       |                      |    |
| 14. _____     |                          |       |                      |    |
| 15. _____     |                          |       |                      |    |
| 16. _____     |                          |       |                      |    |
| 17. _____     |                          |       |                      |    |
| 18. _____     |                          |       |                      |    |
| 19. _____     |                          |       |                      |    |
| 20. _____     |                          |       |                      |    |
| 21. _____     |                          |       |                      |    |
| 22. _____     |                          |       |                      |    |
| 23. _____     |                          |       |                      |    |
| 24. _____     |                          |       |                      |    |
| 25. _____     |                          |       |                      |    |
| 26. _____     |                          |       |                      |    |
| 27. _____     |                          |       |                      |    |
| 28. _____     |                          |       |                      |    |
| 29. _____     |                          |       |                      |    |
| 30. _____     |                          |       |                      |    |

1LCB  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EOOFE

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: EDCG0

Lab Sample ID: 6042.004

Date Received: 04/29/00

Lab File ID: H1027

Date Extracted: 05/03/00

Sample Volume: 1000 (mL)

Date Analyzed: 05/12/00

Concentrated Extract Volume: 1000 (uL)

Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

| CAS NO.  | COMPOUND                     | CONCENTRATION<br>(ug/L) | Q |
|----------|------------------------------|-------------------------|---|
| 108-95-2 | Phenol                       | 5                       | U |
| 111-44-4 | bis(2-Chloroethyl) ether     | 5                       | U |
| 95-57-8  | 2-Chlorophenol               | 5                       | U |
| 95-48-7  | 2-Methylphenol               | 5                       | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 5                       | U |
| 106-44-5 | 4-Methylphenol               | 5                       | U |
| 621-64-7 | N-Nitroso-di-n-propylamine   | 5                       | U |
| 67-72-1  | Hexachloroethane             | 5                       | U |
| 98-95-3  | Nitrobenzene                 | 5                       | U |
| 78-59-1  | Isophorone                   | 5                       | U |
| 88-75-5  | 2-Nitrophenol                | 5                       | U |
| 105-67-9 | 2,4-Dimethylphenol           | 5                       | U |
| 111-91-1 | bis(2-Chloroethoxy) methane  | 5                       | U |
| 120-83-2 | 2,4-Dichlorophenol           | 5                       | U |
| 91-20-3  | Naphthalene                  | 5                       | U |
| 106-47-8 | 4-Chloroaniline              | 5                       | U |
| 87-68-3  | Hexachlorobutadiene          | 5                       | U |
| 59-50-7  | 4-Chloro-3-methylphenol      | 5                       | U |
| 91-57-6  | 2-Methylnaphthalene          | 5                       | U |
| 77-47-4  | Hexachlorocyclopentadiene    | 5                       | U |
| 88-06-2  | 2,4,6-Trichlorophenol        | 5                       | U |
| 95-95-4  | 2,4,5-Trichlorophenol        | 20                      | U |
| 91-58-7  | 2-Chloronaphthalene          | 5                       | U |
| 88-74-4  | 2-Nitroaniline               | 20                      | U |
| 131-11-3 | Dimethylphthalate            | 5                       | U |
| 208-96-8 | Acenaphthylene               | 5                       | U |
| 606-20-2 | 2,6-Dinitrotoluene           | 5                       | U |
| 99-09-2  | 3-Nitroaniline               | 20                      | U |
| 83-32-9  | Acenaphthene                 | 5                       | U |

1LCC  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EOOFE

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004  
 Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: EDCG0  
 Lab Sample ID: 6042.004      Date Received: 04/29/00  
 Lab File ID: H1027      Date Extracted: 05/03/00  
 Sample Volume: 1000 (mL)      Date Analyzed: 05/12/00  
 Concentrated Extract Volume: 1000 (uL)      Dilution Factor: 1.0  
 Injection Volume: 1 (uL)

| CAS NO.   | COMPOUND                   | CONCENTRATION<br>(ug/L) | Q |
|-----------|----------------------------|-------------------------|---|
| 51-28-5   | 2,4-Dinitrophenol          | 20                      | U |
| 100-02-7  | 4-Nitrophenol              | 20                      | U |
| 132-64-9  | Dibenzofuran               | 5                       | U |
| 121-14-2  | 2,4-Dinitrotoluene         | 5                       | U |
| 84-66-2   | Diethylphthalate           | 5                       | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 5                       | U |
| 86-73-7   | Fluorene                   | 5                       | U |
| 100-01-6  | 4-Nitroaniline             | 20                      | U |
| 534-52-1  | 4,6-Dinitro-2-methylphenol | 20                      | U |
| 86-30-6   | N-Nitrosodiphenylamine (1) | 5                       | U |
| 101-55-3  | 4-Bromophenyl-phenylether  | 5                       | U |
| 118-74-1  | Hexachlorobenzene          | 5                       | U |
| 87-86-5   | Pentachlorophenol          | 20                      | U |
| 85-01-8   | Phenanthrene               | 5                       | U |
| 120-12-7  | Anthracene                 | 5                       | U |
| 84-74-2   | Di-n-butylphthalate        | 5                       | U |
| 206-44-0  | Fluoranthene               | 5                       | U |
| 129-00-0  | Pyrene                     | 5                       | U |
| 85-68-7   | Butylbenzylphthalate       | 5                       | U |
| 91-94-1   | 3,3'-Dichlorobenzidine     | 5                       | U |
| 56-55-3   | Benzo(a)anthracene         | 5                       | U |
| 218-01-9  | Chrysene                   | 5                       | U |
| 117-81-7  | bis(2-Ethylhexyl)phthalate | 5                       | U |
| 117-84-0  | Di-n-octylphthalate        | 5                       | U |
| 205-99-2  | Benzo(b)fluoranthene       | 5                       | U |
| 207-08-9  | Benzo(k)fluoranthene       | 5                       | U |
| 50-32-8   | Benzo(a)pyrene             | 5                       | U |
| 193-39-5  | Indeno(1,2,3-cd)Pyrene     | 5                       | U |
| 53-70-3   | Dibenz(a,h)anthracene      | 5                       | U |
| 191-24-2  | Benzo(g,h,i)perylene       | 5                       | U |

(1) - Cannot be separated from Diphenylamine

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EOOFE

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: EDCG0

Lab Sample ID: 6042.004

Date Received: 04/29/00

Lab File ID: H1027

Date Extracted: 05/03/00

Sample Volume: 1000 (mL)

Date Analyzed: 05/12/00

Concentrated Extract Volume: 1000 (uL)

Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

Number TICs found: 2

| CAS NUMBER    | COMPOUND NAME            | RT    | EST. CONC.<br>(ug/L) | Q  |
|---------------|--------------------------|-------|----------------------|----|
| 1. 000541-02- | Cyclopentasiloxane, deca | 30.15 | 13                   | JN |
| 2. 000143-07- | Dodecanoic acid          | 18.02 | 20                   | JN |
| 3.            |                          |       |                      |    |
| 4.            |                          |       |                      |    |
| 5.            |                          |       |                      |    |
| 6.            |                          |       |                      |    |
| 7.            |                          |       |                      |    |
| 8.            |                          |       |                      |    |
| 9.            |                          |       |                      |    |
| 10.           |                          |       |                      |    |
| 11.           |                          |       |                      |    |
| 12.           |                          |       |                      |    |
| 13.           |                          |       |                      |    |
| 14.           |                          |       |                      |    |
| 15.           |                          |       |                      |    |
| 16.           |                          |       |                      |    |
| 17.           |                          |       |                      |    |
| 18.           |                          |       |                      |    |
| 19.           |                          |       |                      |    |
| 20.           |                          |       |                      |    |
| 21.           |                          |       |                      |    |
| 22.           |                          |       |                      |    |
| 23.           |                          |       |                      |    |
| 24.           |                          |       |                      |    |
| 25.           |                          |       |                      |    |
| 26.           |                          |       |                      |    |
| 27.           |                          |       |                      |    |
| 28.           |                          |       |                      |    |
| 29.           |                          |       |                      |    |
| 30.           |                          |       |                      |    |

1LCB  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDCG0

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: EDCG0

Lab Sample ID: 6040.002

Date Received: 04/28/00

Lab File ID: H1012

Date Extracted: 05/03/00

Sample Volume: 1000 (mL)

Date Analyzed: 05/12/00

Concentrated Extract Volume: 1000 (uL)

Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

| CAS NO.  | COMPOUND                     | CONCENTRATION<br>(ug/L) | Q |
|----------|------------------------------|-------------------------|---|
| 108-95-2 | Phenol                       | 5                       | U |
| 111-44-4 | bis(2-Chloroethyl) ether     | 5                       | U |
| 95-57-8  | 2-Chlorophenol               | 5                       | U |
| 95-48-7  | 2-Methylphenol               | 5                       | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 5                       | U |
| 106-44-5 | 4-Methylphenol               | 5                       | U |
| 621-64-7 | N-Nitroso-di-n-propylamine   | 5                       | U |
| 67-72-1  | Hexachloroethane             | 5                       | U |
| 98-95-3  | Nitrobenzene                 | 5                       | U |
| 78-59-1  | Isophorone                   | 5                       | U |
| 88-75-5  | 2-Nitrophenol                | 5                       | U |
| 105-67-9 | 2,4-Dimethylphenol           | 5                       | U |
| 111-91-1 | bis(2-Chloroethoxy)methane   | 5                       | U |
| 120-83-2 | 2,4-Dichlorophenol           | 5                       | U |
| 91-20-3  | Naphthalene                  | 5                       | U |
| 106-47-8 | 4-Chloroaniline              | 5                       | U |
| 87-68-3  | Hexachlorobutadiene          | 5                       | U |
| 59-50-7  | 4-Chloro-3-methylphenol      | 5                       | U |
| 91-57-6  | 2-Methylnaphthalene          | 5                       | U |
| 77-47-4  | Hexachlorocyclopentadiene    | 5                       | U |
| 88-06-2  | 2,4,6-Trichlorophenol        | 5                       | U |
| 95-95-4  | 2,4,5-Trichlorophenol        | 20                      | U |
| 91-58-7  | 2-Chloronaphthalene          | 5                       | U |
| 88-74-4  | 2-Nitroaniline               | 20                      | U |
| 131-11-3 | Dimethylphthalate            | 5                       | U |
| 208-96-8 | Acenaphthylene               | 5                       | U |
| 606-20-2 | 2,6-Dinitrotoluene           | 5                       | U |
| 99-09-2  | 3-Nitroaniline               | 20                      | U |
| 83-32-9  | Acenaphthene                 | 5                       | U |

1LCC  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDCGO

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: EDCGO

Lab Sample ID: 6040.002

Date Received: 04/28/00

Lab File ID: H1012

Date Extracted: 05/03/00

Sample Volume: 1000 (mL)

Date Analyzed: 05/12/00

Concentrated Extract Volume: 1000 (uL)

Dilution Factor: 1.0

Injection Volume: 1 (uL)

| CAS NO.   | COMPOUND                   | CONCENTRATION<br>(ug/L) | Q |
|-----------|----------------------------|-------------------------|---|
| 51-28-5   | 2,4-Dinitrophenol          | 20                      | U |
| 100-02-7  | 4-Nitrophenol              | 20                      | U |
| 132-64-9  | Dibenzofuran               | 5                       | U |
| 121-14-2  | 2,4-Dinitrotoluene         | 5                       | U |
| 84-66-2   | Diethylphthalate           | 5                       | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 5                       | U |
| 86-73-7   | Fluorene                   | 5                       | U |
| 100-01-6  | 4-Nitroaniline             | 20                      | U |
| 534-52-1  | 4,6-Dinitro-2-methylphenol | 20                      | U |
| 86-30-6   | N-Nitrosodiphenylamine (1) | 5                       | U |
| 101-55-3  | 4-Bromophenyl-phenylether  | 5                       | U |
| 118-74-1  | Hexachlorobenzene          | 5                       | U |
| 87-86-5   | Pentachlorophenol          | 20                      | U |
| 85-01-8   | Phenanthrene               | 5                       | U |
| 120-12-7  | Anthracene                 | 5                       | U |
| 84-74-2   | Di-n-butylphthalate        | 5                       | U |
| 206-44-0  | Fluoranthene               | 5                       | U |
| 129-00-0  | Pyrene                     | 5                       | U |
| 85-68-7   | Butylbenzylphthalate       | 5                       | U |
| 91-94-1   | 3,3'-Dichlorobenzidine     | 5                       | U |
| 56-55-3   | Benzo(a)anthracene         | 5                       | U |
| 218-01-9  | Chrysene                   | 5                       | U |
| 117-81-7  | bis(2-Ethylhexyl)phthalate | 5                       | U |
| 117-84-0  | Di-n-octylphthalate        | 5                       | U |
| 205-99-2  | Benzo(b)fluoranthene       | 5                       | U |
| 207-08-9  | Benzo(k)fluoranthene       | 5                       | U |
| 50-32-8   | Benzo(a)pyrene             | 5                       | U |
| 193-39-5  | Indeno(1,2,3-cd)Pyrene     | 5                       | U |
| 53-70-3   | Dibenz(a,h)anthracene      | 5                       | U |
| 191-24-2  | Benzo(g,h,i)perylene       | 5                       | U |

(1) - Cannot be separated from Diphenylamine

1LCF  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EDCG0

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004

Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: EDCG0

Lab Sample ID: 6040.002      Date Received: 04/28/00

Lab File ID: H1012      Date Extracted: 05/03/00

Sample Volume: 1000 (mL)      Date Analyzed: 05/12/00

Concentrated Extract Volume: 1000 (uL)      Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

Number TICs found:      0

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC.<br>(ug/L) | Q |
|------------|---------------|----|----------------------|---|
| 1.         |               |    |                      |   |
| 2.         |               |    |                      |   |
| 3.         |               |    |                      |   |
| 4.         |               |    |                      |   |
| 5.         |               |    |                      |   |
| 6.         |               |    |                      |   |
| 7.         |               |    |                      |   |
| 8.         |               |    |                      |   |
| 9.         |               |    |                      |   |
| 10.        |               |    |                      |   |
| 11.        |               |    |                      |   |
| 12.        |               |    |                      |   |
| 13.        |               |    |                      |   |
| 14.        |               |    |                      |   |
| 15.        |               |    |                      |   |
| 16.        |               |    |                      |   |
| 17.        |               |    |                      |   |
| 18.        |               |    |                      |   |
| 19.        |               |    |                      |   |
| 20.        |               |    |                      |   |
| 21.        |               |    |                      |   |
| 22.        |               |    |                      |   |
| 23.        |               |    |                      |   |
| 24.        |               |    |                      |   |
| 25.        |               |    |                      |   |
| 26.        |               |    |                      |   |
| 27.        |               |    |                      |   |
| 28.        |               |    |                      |   |
| 29.        |               |    |                      |   |
| 30.        |               |    |                      |   |

1LCB  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDCG2

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: EDCG0

Lab Sample ID: 6040.004

Date Received: 04/28/00

Lab File ID: H1013

Date Extracted: 05/03/00

Sample Volume: 1000 (mL)

Date Analyzed: 05/12/00

Concentrated Extract Volume: 1000 (uL)

Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

| CAS NO.  | COMPOUND                     | CONCENTRATION<br>(ug/L) | Q |
|----------|------------------------------|-------------------------|---|
| 108-95-2 | Phenol                       | 5                       | U |
| 111-44-4 | bis(2-Chloroethyl) ether     | 5                       | U |
| 95-57-8  | 2-Chlorophenol               | 5                       | U |
| 95-48-7  | 2-Methylphenol               | 5                       | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 5                       | U |
| 106-44-5 | 4-Methylphenol               | 5                       | U |
| 621-64-7 | N-Nitroso-di-n-propylamine   | 5                       | U |
| 67-72-1  | Hexachloroethane             | 5                       | U |
| 98-95-3  | Nitrobenzene                 | 5                       | U |
| 78-59-1  | Isophorone                   | 5                       | U |
| 88-75-5  | 2-Nitrophenol                | 5                       | U |
| 105-67-9 | 2,4-Dimethylphenol           | 5                       | U |
| 111-91-1 | bis(2-Chloroethoxy)methane   | 5                       | U |
| 120-83-2 | 2,4-Dichlorophenol           | 5                       | U |
| 91-20-3  | Naphthalene                  | 5                       | U |
| 106-47-8 | 4-Chloroaniline              | 5                       | U |
| 87-68-3  | Hexachlorobutadiene          | 5                       | U |
| 59-50-7  | 4-Chloro-3-methylphenol      | 5                       | U |
| 91-57-6  | 2-Methylnaphthalene          | 5                       | U |
| 77-47-4  | Hexachlorocyclopentadiene    | 5                       | U |
| 88-06-2  | 2,4,6-Trichlorophenol        | 5                       | U |
| 95-95-4  | 2,4,5-Trichlorophenol        | 20                      | U |
| 91-58-7  | 2-Chloronaphthalene          | 5                       | U |
| 88-74-4  | 2-Nitroaniline               | 20                      | U |
| 131-11-3 | Dimethylphthalate            | 5                       | U |
| 208-96-8 | Acenaphthylene               | 5                       | U |
| 606-20-2 | 2,6-Dinitrotoluene           | 5                       | U |
| 99-09-2  | 3-Nitroaniline               | 20                      | U |
| 83-32-9  | Acenaphthene                 | 5                       | U |

1LCC  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDCG2

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: EDCG0

Lab Sample ID: 6040.004

Date Received: 04/28/00

Lab File ID: H1013

Date Extracted: 05/03/00

Sample Volume: 1000 (mL)

Date Analyzed: 05/12/00

Concentrated Extract Volume: 1000 (uL)

Dilution Factor: 1.0

Injection Volume: 1 (uL)

| CAS NO.         | COMPOUND                         | CONCENTRATION<br>(ug/L) | Q |
|-----------------|----------------------------------|-------------------------|---|
| 51-28-5------   | 2,4-Dinitrophenol _____          | 20                      | U |
| 100-02-7------  | 4-Nitrophenol _____              | 20                      | U |
| 132-64-9------  | Dibenzofuran _____               | 5                       | U |
| 121-14-2------  | 2,4-Dinitrotoluene _____         | 5                       | U |
| 84-66-2------   | Diethylphthalate _____           | 5                       | U |
| 7005-72-3------ | 4-Chlorophenyl-phenylether _____ | 5                       | U |
| 86-73-7------   | Fluorene _____                   | 5                       | U |
| 100-01-6------  | 4-Nitroaniline _____             | 20                      | U |
| 534-52-1------  | 4,6-Dinitro-2-methylphenol _____ | 20                      | U |
| 86-30-6------   | N-Nitrosodiphenylamine (1) _____ | 5                       | U |
| 101-55-3------  | 4-Bromophenyl-phenylether _____  | 5                       | U |
| 118-74-1------  | Hexachlorobenzene _____          | 5                       | U |
| 87-86-5------   | Pentachlorophenol _____          | 20                      | U |
| 85-01-8------   | Phenanthrene _____               | 5                       | U |
| 120-12-7------  | Anthracene _____                 | 5                       | U |
| 84-74-2------   | Di-n-butylphthalate _____        | 5                       | U |
| 206-44-0------  | Fluoranthene _____               | 5                       | U |
| 129-00-0------  | Pyrene _____                     | 5                       | U |
| 85-68-7------   | Butylbenzylphthalate _____       | 5                       | U |
| 91-94-1------   | 3,3'-Dichlorobenzidine _____     | 5                       | U |
| 56-55-3------   | Benzo(a)anthracene _____         | 5                       | U |
| 218-01-9------  | Chrysene _____                   | 5                       | U |
| 117-81-7------  | bis(2-Ethylhexyl)phthalate _____ | 5                       | U |
| 117-84-0------  | Di-n-octylphthalate _____        | 5                       | U |
| 205-99-2------  | Benzo(b)fluoranthene _____       | 5                       | U |
| 207-08-9------  | Benzo(k)fluoranthene _____       | 5                       | U |
| 50-32-8------   | Benzo(a)pyrene _____             | 5                       | U |
| 193-39-5------  | Indeno(1,2,3-cd)Pyrene _____     | 5                       | U |
| 53-70-3------   | Dibenz(a,h)anthracene _____      | 5                       | U |
| 191-24-2------  | Benzo(g,h,i)perylene _____       | 5                       | U |

(1) - Cannot be separated from Diphenylamine

1LCF  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EDCG2

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004

Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: EDCG0

Lab Sample ID: 6040.004      Date Received: 04/28/00

Lab File ID: H1013      Date Extracted: 05/03/00

Sample Volume: 1000 (mL)      Date Analyzed: 05/12/00

Concentrated Extract Volume: 1000 (uL)      Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

Number TICs found: 0

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC.<br>(ug/L) | Q |
|------------|---------------|----|----------------------|---|
| 1.         |               |    |                      |   |
| 2.         |               |    |                      |   |
| 3.         |               |    |                      |   |
| 4.         |               |    |                      |   |
| 5.         |               |    |                      |   |
| 6.         |               |    |                      |   |
| 7.         |               |    |                      |   |
| 8.         |               |    |                      |   |
| 9.         |               |    |                      |   |
| 10.        |               |    |                      |   |
| 11.        |               |    |                      |   |
| 12.        |               |    |                      |   |
| 13.        |               |    |                      |   |
| 14.        |               |    |                      |   |
| 15.        |               |    |                      |   |
| 16.        |               |    |                      |   |
| 17.        |               |    |                      |   |
| 18.        |               |    |                      |   |
| 19.        |               |    |                      |   |
| 20.        |               |    |                      |   |
| 21.        |               |    |                      |   |
| 22.        |               |    |                      |   |
| 23.        |               |    |                      |   |
| 24.        |               |    |                      |   |
| 25.        |               |    |                      |   |
| 26.        |               |    |                      |   |
| 27.        |               |    |                      |   |
| 28.        |               |    |                      |   |
| 29.        |               |    |                      |   |
| 30.        |               |    |                      |   |

1LCB  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDCG4

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: EDCG0

Lab Sample ID: 6040.005

Date Received: 04/28/00

Lab File ID: H1014

Date Extracted: 05/03/00

Sample Volume: 1000 (mL)

Date Analyzed: 05/12/00

Concentrated Extract Volume: 1000 (uL)

Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

| CAS NO.  | COMPOUND                     | CONCENTRATION<br>(ug/L) | Q |
|----------|------------------------------|-------------------------|---|
| 108-95-2 | Phenol                       | 5                       | U |
| 111-44-4 | bis(2-Chloroethyl) ether     | 5                       | U |
| 95-57-8  | 2-Chlorophenol               | 5                       | U |
| 95-48-7  | 2-Methylphenol               | 5                       | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 5                       | U |
| 106-44-5 | 4-Methylphenol               | 5                       | U |
| 621-64-7 | N-Nitroso-di-n-propylamine   | 5                       | U |
| 67-72-1  | Hexachloroethane             | 5                       | U |
| 98-95-3  | Nitrobenzene                 | 5                       | U |
| 78-59-1  | Isophorone                   | 5                       | U |
| 88-75-5  | 2-Nitrophenol                | 5                       | U |
| 105-67-9 | 2,4-Dimethylphenol           | 5                       | U |
| 111-91-1 | bis(2-Chloroethoxy) methane  | 5                       | U |
| 120-83-2 | 2,4-Dichlorophenol           | 5                       | U |
| 91-20-3  | Naphthalene                  | 5                       | U |
| 106-47-8 | 4-Chloroaniline              | 5                       | U |
| 87-68-3  | Hexachlorobutadiene          | 5                       | U |
| 59-50-7  | 4-Chloro-3-methylphenol      | 5                       | U |
| 91-57-6  | 2-Methylnaphthalene          | 5                       | U |
| 77-47-4  | Hexachlorocyclopentadiene    | 5                       | U |
| 88-06-2  | 2,4,6-Trichlorophenol        | 5                       | U |
| 95-95-4  | 2,4,5-Trichlorophenol        | 20                      | U |
| 91-58-7  | 2-Chloronaphthalane          | 5                       | U |
| 88-74-4  | 2-Nitroaniline               | 20                      | U |
| 131-11-3 | Dimethylphthalate            | 5                       | U |
| 208-96-8 | Acenaphthylene               | 5                       | U |
| 606-20-2 | 2,6-Dinitrotoluene           | 5                       | U |
| 99-09-2  | 3-Nitroaniline               | 20                      | U |
| 83-32-9  | Acenaphthene                 | 5                       | U |

1LCC  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDCG4

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: EDCG0

Lab Sample ID: 6040.005

Date Received: 04/28/00

Lab File ID: H1014

Date Extracted: 05/03/00

Sample Volume: 1000 (mL)

Date Analyzed: 05/12/00

Concentrated Extract Volume: 1000 (uL)

Dilution Factor: 1.0

Injection Volume: 1 (uL)

| CAS NO.   | COMPOUND                   | CONCENTRATION<br>(ug/L) | Q |
|-----------|----------------------------|-------------------------|---|
| 51-28-5   | 2,4-Dinitrophenol          | 20                      | U |
| 100-02-7  | 4-Nitrophenol              | 20                      | U |
| 132-64-9  | Dibenzofuran               | 5                       | U |
| 121-14-2  | 2,4-Dinitrotoluene         | 5                       | U |
| 84-66-2   | Diethylphthalate           | 5                       | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 5                       | U |
| 86-73-7   | Fluorene                   | 5                       | U |
| 100-01-6  | 4-Nitroaniline             | 20                      | U |
| 534-52-1  | 4,6-Dinitro-2-methylphenol | 20                      | U |
| 86-30-6   | N-Nitrosodiphenylamine (1) | 5                       | U |
| 101-55-3  | 4-Bromophenyl-phenylether  | 5                       | U |
| 118-74-1  | Hexachlorobenzene          | 5                       | U |
| 87-86-5   | Pentachlorophenol          | 20                      | U |
| 85-01-8   | Phenanthrene               | 5                       | U |
| 120-12-7  | Anthracene                 | 5                       | U |
| 84-74-2   | Di-n-butylphthalate        | 5                       | U |
| 206-44-0  | Fluoranthene               | 5                       | U |
| 129-00-0  | Pyrene                     | 5                       | U |
| 85-68-7   | Butylbenzylphthalate       | 5                       | U |
| 91-94-1   | 3,3'-Dichlorobenzidine     | 5                       | U |
| 56-55-3   | Benzo(a)anthracene         | 5                       | U |
| 218-01-9  | Chrysene                   | 5                       | U |
| 117-81-7  | bis(2-Ethylhexyl)phthalate | 6                       |   |
| 117-84-0  | Di-n-octylphthalate        | 5                       | U |
| 205-99-2  | Benzo(b)fluoranthene       | 5                       | U |
| 207-08-9  | Benzo(k)fluoranthene       | 5                       | U |
| 50-32-8   | Benzo(a)pyrene             | 5                       | U |
| 193-39-5  | Indeno(1,2,3-cd)Pyrene     | 5                       | U |
| 53-70-3   | Dibenz(a,h)anthracene      | 5                       | U |
| 191-24-2  | Benzo(g,h,i)perylene       | 5                       | U |

(1) - Cannot be separated from Diphenylamine

1LCF  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EDCG4

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004

Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: EDCG0

Lab Sample ID: 6040.005      Date Received: 04/28/00

Lab File ID: H1014      Date Extracted: 05/03/00

Sample Volume: 1000 (mL)      Date Analyzed: 05/12/00

Concentrated Extract Volume: 1000 (uL)      Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

Number TICs found:      0

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC.<br>(ug/L) | Q |
|------------|---------------|----|----------------------|---|
| 1.         |               |    |                      |   |
| 2.         |               |    |                      |   |
| 3.         |               |    |                      |   |
| 4.         |               |    |                      |   |
| 5.         |               |    |                      |   |
| 6.         |               |    |                      |   |
| 7.         |               |    |                      |   |
| 8.         |               |    |                      |   |
| 9.         |               |    |                      |   |
| 10.        |               |    |                      |   |
| 11.        |               |    |                      |   |
| 12.        |               |    |                      |   |
| 13.        |               |    |                      |   |
| 14.        |               |    |                      |   |
| 15.        |               |    |                      |   |
| 16.        |               |    |                      |   |
| 17.        |               |    |                      |   |
| 18.        |               |    |                      |   |
| 19.        |               |    |                      |   |
| 20.        |               |    |                      |   |
| 21.        |               |    |                      |   |
| 22.        |               |    |                      |   |
| 23.        |               |    |                      |   |
| 24.        |               |    |                      |   |
| 25.        |               |    |                      |   |
| 26.        |               |    |                      |   |
| 27.        |               |    |                      |   |
| 28.        |               |    |                      |   |
| 29.        |               |    |                      |   |
| 30.        |               |    |                      |   |

1LCB  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDCG5

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: EDCG0

Lab Sample ID: 6040.006

Date Received: 04/28/00

Lab File ID: H1015

Date Extracted: 05/03/00

Sample Volume: 1000 (mL)

Date Analyzed: 05/12/00

Concentrated Extract Volume: 1000 (uL)

Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

| CAS NO.  | COMPOUND                     | CONCENTRATION<br>(ug/L) | Q |
|----------|------------------------------|-------------------------|---|
| 108-95-2 | Phenol                       | 5                       | U |
| 111-44-4 | bis(2-Chloroethyl) ether     | 5                       | U |
| 95-57-8  | 2-Chlorophenol               | 5                       | U |
| 95-48-7  | 2-Methylphenol               | 5                       | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 5                       | U |
| 106-44-5 | 4-Methylphenol               | 5                       | U |
| 621-64-7 | N-Nitroso-di-n-propylamine   | 5                       | U |
| 67-72-1  | Hexachloroethane             | 5                       | U |
| 98-95-3  | Nitrobenzene                 | 5                       | U |
| 78-59-1  | Isophorone                   | 5                       | U |
| 88-75-5  | 2-Nitrophenol                | 5                       | U |
| 105-67-9 | 2,4-Dimethylphenol           | 5                       | U |
| 111-91-1 | bis(2-Chloroethoxy)methane   | 5                       | U |
| 120-83-2 | 2,4-Dichlorophenol           | 5                       | U |
| 91-20-3  | Naphthalene                  | 5                       | U |
| 106-47-8 | 4-Chloroaniline              | 5                       | U |
| 87-68-3  | Hexachlorobutadiene          | 5                       | U |
| 59-50-7  | 4-Chloro-3-methylphenol      | 5                       | U |
| 91-57-6  | 2-Methylnaphthalene          | 5                       | U |
| 77-47-4  | Hexachlorocyclopentadiene    | 5                       | U |
| 88-06-2  | 2,4,6-Trichlorophenol        | 5                       | U |
| 95-95-4  | 2,4,5-Trichlorophenol        | 20                      | U |
| 91-58-7  | 2-Chloronaphthalane          | 5                       | U |
| 88-74-4  | 2-Nitroaniline               | 20                      | U |
| 131-11-3 | Dimethylphthalate            | 5                       | U |
| 208-96-8 | Acenaphthylene               | 5                       | U |
| 606-20-2 | 2,6-Dinitrotoluene           | 5                       | U |
| 99-09-2  | 3-Nitroaniline               | 20                      | U |
| 83-32-9  | Acenaphthene                 | 5                       | U |

1LCC  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDCG5

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004  
 Lab Code: PDP Case No.: 27986 SAS No.: \_\_\_\_\_ SDG No.: EDCG0  
 Lab Sample ID: 6040.006 Date Received: 04/28/00  
 Lab File ID: H1015 Date Extracted: 05/03/00  
 Sample Volume: 1000 (mL) Date Analyzed: 05/12/00  
 Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0  
 Injection Volume: 1 (uL)

| CAS NO.   | COMPOUND                   | CONCENTRATION<br>(ug/L) | Q |
|-----------|----------------------------|-------------------------|---|
| 51-28-5   | 2,4-Dinitrophenol          | 20                      | U |
| 100-02-7  | 4-Nitrophenol              | 20                      | U |
| 132-64-9  | Dibenzofuran               | 5                       | U |
| 121-14-2  | 2,4-Dinitrotoluene         | 5                       | U |
| 84-66-2   | Diethylphthalate           | 5                       | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 5                       | U |
| 86-73-7   | Fluorene                   | 5                       | U |
| 100-01-6  | 4-Nitroaniline             | 20                      | U |
| 534-52-1  | 4,6-Dinitro-2-methylphenol | 20                      | U |
| 86-30-6   | N-Nitrosodiphenylamine (1) | 5                       | U |
| 101-55-3  | 4-Bromophenyl-phenylether  | 5                       | U |
| 118-74-1  | Hexachlorobenzene          | 5                       | U |
| 87-86-5   | Pentachlorophenol          | 20                      | U |
| 85-01-8   | Phenanthrene               | 5                       | U |
| 120-12-7  | Anthracene                 | 5                       | U |
| 84-74-2   | Di-n-butylphthalate        | 5                       | U |
| 206-44-0  | Fluoranthene               | 5                       | U |
| 129-00-0  | Pyrene                     | 5                       | U |
| 85-68-7   | Butylbenzylphthalate       | 5                       | U |
| 91-94-1   | 3,3'-Dichlorobenzidine     | 5                       | U |
| 56-55-3   | Benzo(a)anthracene         | 5                       | U |
| 218-01-9  | Chrysene                   | 5                       | U |
| 117-81-7  | bis(2-Ethylhexyl)phthalate | 5                       | U |
| 117-84-0  | Di-n-octylphthalate        | 5                       | U |
| 205-99-2  | Benzo(b)fluoranthene       | 5                       | U |
| 207-08-9  | Benzo(k)fluoranthene       | 5                       | U |
| 50-32-8   | Benzo(a)pyrene             | 5                       | U |
| 193-39-5  | Indeno(1,2,3-cd)Pyrene     | 5                       | U |
| 53-70-3   | Dibenz(a,h)anthracene      | 5                       | U |
| 191-24-2  | Benzo(g,h,i)perylene       | 5                       | U |

(1) - Cannot be separated from Diphenylamine

1LCF  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EDCG5

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004

Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: EDCG0

Lab Sample ID: 6040.006      Date Received: 04/28/00

Lab File ID: H1015      Date Extracted: 05/03/00

Sample Volume: 1000 (mL)      Date Analyzed: 05/12/00

Concentrated Extract Volume: 1000 (uL)      Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

Number TICs found: 0

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC.<br>(ug/L) | Q |
|------------|---------------|----|----------------------|---|
| 1.         |               |    |                      |   |
| 2.         |               |    |                      |   |
| 3.         |               |    |                      |   |
| 4.         |               |    |                      |   |
| 5.         |               |    |                      |   |
| 6.         |               |    |                      |   |
| 7.         |               |    |                      |   |
| 8.         |               |    |                      |   |
| 9.         |               |    |                      |   |
| 10.        |               |    |                      |   |
| 11.        |               |    |                      |   |
| 12.        |               |    |                      |   |
| 13.        |               |    |                      |   |
| 14.        |               |    |                      |   |
| 15.        |               |    |                      |   |
| 16.        |               |    |                      |   |
| 17.        |               |    |                      |   |
| 18.        |               |    |                      |   |
| 19.        |               |    |                      |   |
| 20.        |               |    |                      |   |
| 21.        |               |    |                      |   |
| 22.        |               |    |                      |   |
| 23.        |               |    |                      |   |
| 24.        |               |    |                      |   |
| 25.        |               |    |                      |   |
| 26.        |               |    |                      |   |
| 27.        |               |    |                      |   |
| 28.        |               |    |                      |   |
| 29.        |               |    |                      |   |
| 30.        |               |    |                      |   |

1LCB  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDCG6

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: EDCG0

Lab Sample ID: 6040.007

Date Received: 04/28/00

Lab File ID: H1016

Date Extracted: 05/03/00

Sample Volume: 1000 (mL)

Date Analyzed: 05/12/00

Concentrated Extract Volume: 1000 (uL)

Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

| CAS NO.  | COMPOUND                     | CONCENTRATION<br>(ug/L) | Q |
|----------|------------------------------|-------------------------|---|
| 108-95-2 | Phenol                       | 5                       | U |
| 111-44-4 | bis(2-Chloroethyl) ether     | 5                       | U |
| 95-57-8  | 2-Chlorophenol               | 5                       | U |
| 95-48-7  | 2-Methylphenol               | 5                       | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 5                       | U |
| 106-44-5 | 4-Methylphenol               | 5                       | U |
| 621-64-7 | N-Nitroso-di-n-propylamine   | 5                       | U |
| 67-72-1  | Hexachloroethane             | 5                       | U |
| 98-95-3  | Nitrobenzene                 | 5                       | U |
| 78-59-1  | Isophorone                   | 5                       | U |
| 88-75-5  | 2-Nitrophenol                | 5                       | U |
| 105-67-9 | 2,4-Dimethylphenol           | 5                       | U |
| 111-91-1 | bis(2-Chloroethoxy)methane   | 5                       | U |
| 120-83-2 | 2,4-Dichlorophenol           | 5                       | U |
| 91-20-3  | Naphthalene                  | 5                       | U |
| 106-47-8 | 4-Chloroaniline              | 5                       | U |
| 87-68-3  | Hexachlorobutadiene          | 5                       | U |
| 59-50-7  | 4-Chloro-3-methylphenol      | 5                       | U |
| 91-57-6  | 2-Methylnaphthalene          | 5                       | U |
| 77-47-4  | Hexachlorocyclopentadiene    | 5                       | U |
| 88-06-2  | 2,4,6-Trichlorophenol        | 5                       | U |
| 95-95-4  | 2,4,5-Trichlorophenol        | 20                      | U |
| 91-58-7  | 2-Chloronaphthalane          | 5                       | U |
| 88-74-4  | 2-Nitroaniline               | 20                      | U |
| 131-11-3 | Dimethylphthalate            | 5                       | U |
| 208-96-8 | Acenaphthylene               | 5                       | U |
| 606-20-2 | 2,6-Dinitrotoluene           | 5                       | U |
| 99-09-2  | 3-Nitroaniline               | 20                      | U |
| 83-32-9  | Acenaphthene                 | 5                       | U |

1LCC  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDCG6

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: EDCG0

Lab Sample ID: 6040.007

Date Received: 04/28/00

Lab File ID: H1016

Date Extracted: 05/03/00

Sample Volume: 1000 (mL)

Date Analyzed: 05/12/00

Concentrated Extract Volume: 1000 (uL)

Dilution Factor: 1.0

Injection Volume: 1 (uL)

| CAS NO.        | COMPOUND                      | CONCENTRATION<br>(ug/L) | Q |
|----------------|-------------------------------|-------------------------|---|
| 51-28-5-----   | 2,4-Dinitrophenol_____        | 20                      | U |
| 100-02-7-----  | 4-Nitrophenol_____            | 20                      | U |
| 132-64-9-----  | Dibenzofuran_____             | 5                       | U |
| 121-14-2-----  | 2,4-Dinitrotoluene_____       | 5                       | U |
| 84-66-2-----   | Diethylphthalate_____         | 5                       | U |
| 7005-72-3----- | 4-Chlorophenyl-phenylether__  | 5                       | U |
| 86-73-7-----   | Fluorene_____                 | 5                       | U |
| 100-01-6-----  | 4-Nitroaniline_____           | 20                      | U |
| 534-52-1-----  | 4,6-Dinitro-2-methylphenol__  | 20                      | U |
| 86-30-6-----   | N-Nitrosodiphenylamine (1)___ | 5                       | U |
| 101-55-3-----  | 4-Bromophenyl-phenylether__   | 5                       | U |
| 118-74-1-----  | Hexachlorobenzene_____        | 5                       | U |
| 87-86-5-----   | Pentachlorophenol_____        | 20                      | U |
| 85-01-8-----   | Phenanthrene_____             | 5                       | U |
| 120-12-7-----  | Anthracene_____               | 5                       | U |
| 84-74-2-----   | Di-n-butylphthalate_____      | 5                       | U |
| 206-44-0-----  | Fluoranthene_____             | 5                       | U |
| 129-00-0-----  | Pyrene_____                   | 5                       | U |
| 85-68-7-----   | Butylbenzylphthalate_____     | 5                       | U |
| 91-94-1-----   | 3,3'-Dichlorobenzidine_____   | 5                       | U |
| 56-55-3-----   | Benzo(a)anthracene_____       | 5                       | U |
| 218-01-9-----  | Chrysene_____                 | 5                       | U |
| 117-81-7-----  | bis(2-Ethylhexyl)phthalate__  | 5                       | U |
| 117-84-0-----  | Di-n-octylphthalate_____      | 5                       | U |
| 205-99-2-----  | Benzo(b)fluoranthene_____     | 5                       | U |
| 207-08-9-----  | Benzo(k)fluoranthene_____     | 5                       | U |
| 50-32-8-----   | Benzo(a)pyrene_____           | 5                       | U |
| 193-39-5-----  | Indeno(1,2,3-cd)Pyrene_____   | 5                       | U |
| 53-70-3-----   | Dibenz(a,h)anthracene_____    | 5                       | U |
| 191-24-2-----  | Benzo(g,h,i)perylene_____     | 5                       | U |

(1) - Cannot be separated from Diphenylamine

1LCF  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EDCG6.

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004

Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: EDCG0

Lab Sample ID: 6040.007      Date Received: 04/28/00

Lab File ID: H1016      Date Extracted: 05/03/00

Sample Volume: 1000 (mL)      Date Analyzed: 05/12/00

Concentrated Extract Volume: 1000 (uL)      Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

Number TICs found: 0

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC.<br>(ug/L) | Q |
|------------|---------------|----|----------------------|---|
| 1.         |               |    |                      |   |
| 2.         |               |    |                      |   |
| 3.         |               |    |                      |   |
| 4.         |               |    |                      |   |
| 5.         |               |    |                      |   |
| 6.         |               |    |                      |   |
| 7.         |               |    |                      |   |
| 8.         |               |    |                      |   |
| 9.         |               |    |                      |   |
| 10.        |               |    |                      |   |
| 11.        |               |    |                      |   |
| 12.        |               |    |                      |   |
| 13.        |               |    |                      |   |
| 14.        |               |    |                      |   |
| 15.        |               |    |                      |   |
| 16.        |               |    |                      |   |
| 17.        |               |    |                      |   |
| 18.        |               |    |                      |   |
| 19.        |               |    |                      |   |
| 20.        |               |    |                      |   |
| 21.        |               |    |                      |   |
| 22.        |               |    |                      |   |
| 23.        |               |    |                      |   |
| 24.        |               |    |                      |   |
| 25.        |               |    |                      |   |
| 26.        |               |    |                      |   |
| 27.        |               |    |                      |   |
| 28.        |               |    |                      |   |
| 29.        |               |    |                      |   |
| 30.        |               |    |                      |   |

1LCB  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDCG7

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: EDCG0

Lab Sample ID: 6040.008

Date Received: 04/28/00

Lab File ID: H1017

Date Extracted: 05/03/00

Sample Volume: 1000 (mL)

Date Analyzed: 05/12/00

Concentrated Extract Volume: 1000 (uL)

Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

| CAS NO.  | COMPOUND                      | CONCENTRATION<br>(ug/L) | Q |
|----------|-------------------------------|-------------------------|---|
| 108-95-2 | Phenol                        | 5                       | U |
| 111-44-4 | bis(2-Chloroethyl) ether      | 5                       | U |
| 95-57-8  | 2-Chlorophenol                | 5                       | U |
| 95-48-7  | 2-Methylphenol                | 5                       | U |
| 108-60-1 | 2, 2'-oxybis(1-Chloropropane) | 5                       | U |
| 106-44-5 | 4-Methylphenol                | 5                       | U |
| 621-64-7 | N-Nitroso-di-n-propylamine    | 5                       | U |
| 67-72-1  | Hexachloroethane              | 5                       | U |
| 98-95-3  | Nitrobenzene                  | 5                       | U |
| 78-59-1  | Isophorone                    | 5                       | U |
| 88-75-5  | 2-Nitrophenol                 | 5                       | U |
| 105-67-9 | 2, 4-Dimethylphenol           | 5                       | U |
| 111-91-1 | bis(2-Chloroethoxy)methane    | 5                       | U |
| 120-83-2 | 2, 4-Dichlorophenol           | 5                       | U |
| 91-20-3  | Naphthalene                   | 5                       | U |
| 106-47-8 | 4-Chloroaniline               | 5                       | U |
| 87-68-3  | Hexachlorobutadiene           | 5                       | U |
| 59-50-7  | 4-Chloro-3-methylphenol       | 5                       | U |
| 91-57-6  | 2-Methylnaphthalene           | 5                       | U |
| 77-47-4  | Hexachlorocyclopentadiene     | 5                       | U |
| 88-06-2  | 2, 4, 6-Trichlorophenol       | 5                       | U |
| 95-95-4  | 2, 4, 5-Trichlorophenol       | 20                      | U |
| 91-58-7  | 2-Chloronaphthalene           | 5                       | U |
| 88-74-4  | 2-Nitroaniline                | 20                      | U |
| 131-11-3 | Dimethylphthalate             | 5                       | U |
| 208-96-8 | Acenaphthylene                | 5                       | U |
| 606-20-2 | 2, 6-Dinitrotoluene           | 5                       | U |
| 99-09-2  | 3-Nitroaniline                | 20                      | U |
| 83-32-9  | Acenaphthene                  | 5                       | U |

1LCC  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDCG7

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: EDCG0

Lab Sample ID: 6040.008

Date Received: 04/28/00

Lab File ID: H1017

Date Extracted: 05/03/00

Sample Volume: 1000 (mL)

Date Analyzed: 05/12/00

Concentrated Extract Volume: 1000 (uL)

Dilution Factor: 1.0

Injection Volume: 1 (uL)

| CAS NO.        | COMPOUND                   | CONCENTRATION<br>(ug/L) | Q |
|----------------|----------------------------|-------------------------|---|
| 51-28-5-----   | 2,4-Dinitrophenol          | 20                      | U |
| 100-02-7-----  | 4-Nitrophenol              | 20                      | U |
| 132-64-9-----  | Dibenzofuran               | 5                       | U |
| 121-14-2-----  | 2,4-Dinitrotoluene         | 5                       | U |
| 84-66-2-----   | Diethylphthalate           | 5                       | U |
| 7005-72-3----- | 4-Chlorophenyl-phenylether | 5                       | U |
| 86-73-7-----   | Fluorene                   | 5                       | U |
| 100-01-6-----  | 4-Nitroaniline             | 20                      | U |
| 534-52-1-----  | 4,6-Dinitro-2-methylphenol | 20                      | U |
| 86-30-6-----   | N-Nitrosodiphenylamine (1) | 5                       | U |
| 101-55-3-----  | 4-Bromophenyl-phenylether  | 5                       | U |
| 118-74-1-----  | Hexachlorobenzene          | 5                       | U |
| 87-86-5-----   | Pentachlorophenol          | 20                      | U |
| 85-01-8-----   | Phenanthrene               | 5                       | U |
| 120-12-7-----  | Anthracene                 | 5                       | U |
| 84-74-2-----   | Di-n-butylphthalate        | 5                       | U |
| 206-44-0-----  | Fluoranthene               | 5                       | U |
| 129-00-0-----  | Pyrene                     | 5                       | U |
| 85-68-7-----   | Butylbenzylphthalate       | 5                       | U |
| 91-94-1-----   | 3,3'-Dichlorobenzidine     | 5                       | U |
| 56-55-3-----   | Benzo(a)anthracene         | 5                       | U |
| 218-01-9-----  | Chrysene                   | 5                       | U |
| 117-81-7-----  | bis(2-Ethylhexyl)phthalate | 5                       | U |
| 117-84-0-----  | Di-n-octylphthalate        | 5                       | U |
| 205-99-2-----  | Benzo(b)fluoranthene       | 5                       | U |
| 207-08-9-----  | Benzo(k)fluoranthene       | 5                       | U |
| 50-32-8-----   | Benzo(a)pyrene             | 5                       | U |
| 193-39-5-----  | Indeno(1,2,3-cd)Pyrene     | 5                       | U |
| 53-70-3-----   | Dibenz(a,h)anthracene      | 5                       | U |
| 191-24-2-----  | Benzo(g,h,i)perylene       | 5                       | U |

(1) - Cannot be separated from Diphenylamine

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

TENTATIVELY IDENTIFIED COMPOUNDS

EDCG7

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: EDCG0

Lab Sample ID: 6040.008

Date Received: 04/28/00

Lab File ID: H1017

Date Extracted: 05/03/00

Sample Volume: 1000 (mL)

Date Analyzed: 05/12/00

Concentrated Extract Volume: 1000 (uL)

Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

Number TICs found: 0

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC.<br>(ug/L) | Q |
|------------|---------------|----|----------------------|---|
| 1.         |               |    |                      |   |
| 2.         |               |    |                      |   |
| 3.         |               |    |                      |   |
| 4.         |               |    |                      |   |
| 5.         |               |    |                      |   |
| 6.         |               |    |                      |   |
| 7.         |               |    |                      |   |
| 8.         |               |    |                      |   |
| 9.         |               |    |                      |   |
| 10.        |               |    |                      |   |
| 11.        |               |    |                      |   |
| 12.        |               |    |                      |   |
| 13.        |               |    |                      |   |
| 14.        |               |    |                      |   |
| 15.        |               |    |                      |   |
| 16.        |               |    |                      |   |
| 17.        |               |    |                      |   |
| 18.        |               |    |                      |   |
| 19.        |               |    |                      |   |
| 20.        |               |    |                      |   |
| 21.        |               |    |                      |   |
| 22.        |               |    |                      |   |
| 23.        |               |    |                      |   |
| 24.        |               |    |                      |   |
| 25.        |               |    |                      |   |
| 26.        |               |    |                      |   |
| 27.        |               |    |                      |   |
| 28.        |               |    |                      |   |
| 29.        |               |    |                      |   |
| 30.        |               |    |                      |   |

1LCB  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDCG8

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: EDCG0

Lab Sample ID: 6040.010

Date Received: 04/28/00

Lab File ID: H1018

Date Extracted: 05/03/00

Sample Volume: 1000 (mL)

Date Analyzed: 05/12/00

Concentrated Extract Volume: 1000 (uL)

Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

| CAS NO.  | COMPOUND                     | CONCENTRATION<br>(ug/L) | Q |
|----------|------------------------------|-------------------------|---|
| 108-95-2 | Phenol                       | 5                       | U |
| 111-44-4 | bis(2-Chloroethyl) ether     | 5                       | U |
| 95-57-8  | 2-Chlorophenol               | 5                       | U |
| 95-48-7  | 2-Methylphenol               | 5                       | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 5                       | U |
| 106-44-5 | 4-Methylphenol               | 5                       | U |
| 621-64-7 | N-Nitroso-di-n-propylamine   | 5                       | U |
| 67-72-1  | Hexachloroethane             | 5                       | U |
| 98-95-3  | Nitrobenzene                 | 5                       | U |
| 78-59-1  | Isophorone                   | 5                       | U |
| 88-75-5  | 2-Nitrophenol                | 5                       | U |
| 105-67-9 | 2,4-Dimethylphenol           | 5                       | U |
| 111-91-1 | bis(2-Chloroethoxy) methane  | 5                       | U |
| 120-83-2 | 2,4-Dichlorophenol           | 5                       | U |
| 91-20-3  | Naphthalene                  | 5                       | U |
| 106-47-8 | 4-Chloroaniline              | 5                       | U |
| 87-68-3  | Hexachlorobutadiene          | 5                       | U |
| 59-50-7  | 4-Chloro-3-methylphenol      | 5                       | U |
| 91-57-6  | 2-Methylnaphthalene          | 5                       | U |
| 77-47-4  | Hexachlorocyclopentadiene    | 5                       | U |
| 88-06-2  | 2,4,6-Trichlorophenol        | 5                       | U |
| 95-95-4  | 2,4,5-Trichlorophenol        | 20                      | U |
| 91-58-7  | 2-Chloronaphthalene          | 5                       | U |
| 88-74-4  | 2-Nitroaniline               | 20                      | U |
| 131-11-3 | Dimethylphthalate            | 5                       | U |
| 208-96-8 | Acenaphthylene               | 5                       | U |
| 606-20-2 | 2,6-Dinitrotoluene           | 5                       | U |
| 99-09-2  | 3-Nitroaniline               | 20                      | U |
| 83-32-9  | Acenaphthene                 | 5                       | U |

1LCC  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDCG8

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: EDCG0

Lab Sample ID: 6040.010

Date Received: 04/28/00

Lab File ID: H1018

Date Extracted: 05/03/00

Sample Volume: 1000 (mL)

Date Analyzed: 05/12/00

Concentrated Extract Volume: 1000 (uL)

Dilution Factor: 1.0

Injection Volume: 1 (uL)

| CAS NO.        | COMPOUND                   | CONCENTRATION<br>(ug/L) | Q |
|----------------|----------------------------|-------------------------|---|
| 51-28-5-----   | 2,4-Dinitrophenol          | 20                      | U |
| 100-02-7-----  | 4-Nitrophenol              | 20                      | U |
| 132-64-9-----  | Dibenzofuran               | 5                       | U |
| 121-14-2-----  | 2,4-Dinitrotoluene         | 5                       | U |
| 84-66-2-----   | Diethylphthalate           | 5                       | U |
| 7005-72-3----- | 4-Chlorophenyl-phenylether | 5                       | U |
| 86-73-7-----   | Fluorene                   | 5                       | U |
| 100-01-6-----  | 4-Nitroaniline             | 20                      | U |
| 534-52-1-----  | 4,6-Dinitro-2-methylphenol | 20                      | U |
| 86-30-6-----   | N-Nitrosodiphenylamine (1) | 5                       | U |
| 101-55-3-----  | 4-Bromophenyl-phenylether  | 5                       | U |
| 118-74-1-----  | Hexachlorobenzene          | 5                       | U |
| 87-86-5-----   | Pentachlorophenol          | 20                      | U |
| 85-01-8-----   | Phenanthrene               | 5                       | U |
| 120-12-7-----  | Anthracene                 | 5                       | U |
| 84-74-2-----   | Di-n-butylphthalate        | 5                       | U |
| 206-44-0-----  | Fluoranthene               | 5                       | U |
| 129-00-0-----  | Pyrene                     | 5                       | U |
| 85-68-7-----   | Butylbenzylphthalate       | 5                       | U |
| 91-94-1-----   | 3,3'-Dichlorobenzidine     | 5                       | U |
| 56-55-3-----   | Benzo(a)anthracene         | 5                       | U |
| 218-01-9-----  | Chrysene                   | 5                       | U |
| 117-81-7-----  | bis(2-Ethylhexyl)phthalate | 39                      | U |
| 117-84-0-----  | Di-n-octylphthalate        | 5                       | U |
| 205-99-2-----  | Benzo(b)fluoranthene       | 5                       | U |
| 207-08-9-----  | Benzo(k)fluoranthene       | 5                       | U |
| 50-32-8-----   | Benzo(a)pyrene             | 5                       | U |
| 193-39-5-----  | Indeno(1,2,3-cd)Pyrene     | 5                       | U |
| 53-70-3-----   | Dibenz(a,h)anthracene      | 5                       | U |
| 191-24-2-----  | Benzo(g,h,i)perylene       | 5                       | U |

(1) - Cannot be separated from Diphenylamine

1LCF  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EDCG8

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004

Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: EDCG0

Lab Sample ID: 6040.010      Date Received: 04/28/00

Lab File ID: H1018      Date Extracted: 05/03/00

Sample Volume: 1000 (mL)      Date Analyzed: 05/12/00

Concentrated Extract Volume: 1000 (uL)      Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

Number TICs found: 0

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC.<br>(ug/L) | Q |
|------------|---------------|----|----------------------|---|
| 1.         |               |    |                      |   |
| 2.         |               |    |                      |   |
| 3.         |               |    |                      |   |
| 4.         |               |    |                      |   |
| 5.         |               |    |                      |   |
| 6.         |               |    |                      |   |
| 7.         |               |    |                      |   |
| 8.         |               |    |                      |   |
| 9.         |               |    |                      |   |
| 10.        |               |    |                      |   |
| 11.        |               |    |                      |   |
| 12.        |               |    |                      |   |
| 13.        |               |    |                      |   |
| 14.        |               |    |                      |   |
| 15.        |               |    |                      |   |
| 16.        |               |    |                      |   |
| 17.        |               |    |                      |   |
| 18.        |               |    |                      |   |
| 19.        |               |    |                      |   |
| 20.        |               |    |                      |   |
| 21.        |               |    |                      |   |
| 22.        |               |    |                      |   |
| 23.        |               |    |                      |   |
| 24.        |               |    |                      |   |
| 25.        |               |    |                      |   |
| 26.        |               |    |                      |   |
| 27.        |               |    |                      |   |
| 28.        |               |    |                      |   |
| 29.        |               |    |                      |   |
| 30.        |               |    |                      |   |

1LCB  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDCG9

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004  
 Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: EDCG0  
 Lab Sample ID: 6040.011      Date Received: 04/28/00  
 Lab File ID: H1019      Date Extracted: 05/03/00  
 Sample Volume: 1000 (mL)      Date Analyzed: 05/12/00  
 Concentrated Extract Volume: 1000 (uL)      Dilution Factor: 1.0  
 Injection Volume: 1.0 (uL)

| CAS NO.  | COMPOUND                     | CONCENTRATION<br>(ug/L) | Q |
|----------|------------------------------|-------------------------|---|
| 108-95-2 | Phenol                       | 5                       | U |
| 111-44-4 | bis(2-Chloroethyl) ether     | 5                       | U |
| 95-57-8  | 2-Chlorophenol               | 5                       | U |
| 95-48-7  | 2-Methylphenol               | 5                       | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 5                       | U |
| 106-44-5 | 4-Methylphenol               | 5                       | U |
| 621-64-7 | N-Nitroso-di-n-propylamine   | 5                       | U |
| 67-72-1  | Hexachloroethane             | 5                       | U |
| 98-95-3  | Nitrobenzene                 | 5                       | U |
| 78-59-1  | Isophorone                   | 5                       | U |
| 88-75-5  | 2-Nitrophenol                | 5                       | U |
| 105-67-9 | 2,4-Dimethylphenol           | 5                       | U |
| 111-91-1 | bis(2-Chloroethoxy)methane   | 5                       | U |
| 120-83-2 | 2,4-Dichlorophenol           | 5                       | U |
| 91-20-3  | Naphthalene                  | 5                       | U |
| 106-47-8 | 4-Chloroaniline              | 5                       | U |
| 87-68-3  | Hexachlorobutadiene          | 5                       | U |
| 59-50-7  | 4-Chloro-3-methylphenol      | 5                       | U |
| 91-57-6  | 2-Methylnaphthalene          | 5                       | U |
| 77-47-4  | Hexachlorocyclopentadiene    | 5                       | U |
| 88-06-2  | 2,4,6-Trichlorophenol        | 5                       | U |
| 95-95-4  | 2,4,5-Trichlorophenol        | 20                      | U |
| 91-58-7  | 2-Chloronaphthalane          | 5                       | U |
| 88-74-4  | 2-Nitroaniline               | 20                      | U |
| 131-11-3 | Dimethylphthalate            | 5                       | U |
| 208-96-8 | Acenaphthylene               | 5                       | U |
| 606-20-2 | 2,6-Dinitrotoluene           | 5                       | U |
| 99-09-2  | 3-Nitroaniline               | 20                      | U |
| 83-32-9  | Acenaphthene                 | 5                       | U |

1LCC  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EDCG9

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: EDCG0

Lab Sample ID: 6040.011

Date Received: 04/28/00

Lab File ID: H1019

Date Extracted: 05/03/00

Sample Volume: 1000 (mL)

Date Analyzed: 05/12/00

Concentrated Extract Volume: 1000 (uL)

Dilution Factor: 1.0

Injection Volume: 1 (uL)

| CAS NO.   | COMPOUND                   | CONCENTRATION<br>(ug/L) | Q |
|-----------|----------------------------|-------------------------|---|
| 51-28-5   | 2,4-Dinitrophenol          | 20                      | U |
| 100-02-7  | 4-Nitrophenol              | 20                      | U |
| 132-64-9  | Dibenzofuran               | 5                       | U |
| 121-14-2  | 2,4-Dinitrotoluene         | 5                       | U |
| 84-66-2   | Diethylphthalate           | 5                       | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 5                       | U |
| 86-73-7   | Fluorene                   | 5                       | U |
| 100-01-6  | 4-Nitroaniline             | 20                      | U |
| 534-52-1  | 4,6-Dinitro-2-methylphenol | 20                      | U |
| 86-30-6   | N-Nitrosodiphenylamine (1) | 5                       | U |
| 101-55-3  | 4-Bromophenyl-phenylether  | 5                       | U |
| 118-74-1  | Hexachlorobenzene          | 5                       | U |
| 87-86-5   | Pentachlorophenol          | 20                      | U |
| 85-01-8   | Phenanthrene               | 5                       | U |
| 120-12-7  | Anthracene                 | 5                       | U |
| 84-74-2   | Di-n-butylphthalate        | 5                       | U |
| 206-44-0  | Fluoranthene               | 5                       | U |
| 129-00-0  | Pyrene                     | 5                       | U |
| 85-68-7   | Butylbenzylphthalate       | 5                       | U |
| 91-94-1   | 3,3'-Dichlorobenzidine     | 5                       | U |
| 56-55-3   | Benzo(a)anthracene         | 5                       | U |
| 218-01-9  | Chrysene                   | 5                       | U |
| 117-81-7  | bis(2-Ethylhexyl)phthalate | 19                      |   |
| 117-84-0  | Di-n-octylphthalate        | 5                       | U |
| 205-99-2  | Benzo(b)fluoranthene       | 5                       | U |
| 207-08-9  | Benzo(k)fluoranthene       | 5                       | U |
| 50-32-8   | Benzo(a)pyrene             | 5                       | U |
| 193-39-5  | Indeno(1,2,3-cd)Pyrene     | 5                       | U |
| 53-70-3   | Dibenz(a,h)anthracene      | 5                       | U |
| 191-24-2  | Benzo(g,h,i)perylene       | 5                       | U |

(1) - Cannot be separated from Diphenylamine

1LCF  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EDCG9

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004

Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: EDCG0

Lab Sample ID: 6040.011      Date Received: 04/28/00

Lab File ID: H1019      Date Extracted: 05/03/00

Sample Volume: 1000 (mL)      Date Analyzed: 05/12/00

Concentrated Extract Volume: 1000 (uL)      Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

Number TICs found:      0

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC.<br>(ug/L) | Q |
|------------|---------------|----|----------------------|---|
| 1.         |               |    |                      |   |
| 2.         |               |    |                      |   |
| 3.         |               |    |                      |   |
| 4.         |               |    |                      |   |
| 5.         |               |    |                      |   |
| 6.         |               |    |                      |   |
| 7.         |               |    |                      |   |
| 8.         |               |    |                      |   |
| 9.         |               |    |                      |   |
| 10.        |               |    |                      |   |
| 11.        |               |    |                      |   |
| 12.        |               |    |                      |   |
| 13.        |               |    |                      |   |
| 14.        |               |    |                      |   |
| 15.        |               |    |                      |   |
| 16.        |               |    |                      |   |
| 17.        |               |    |                      |   |
| 18.        |               |    |                      |   |
| 19.        |               |    |                      |   |
| 20.        |               |    |                      |   |
| 21.        |               |    |                      |   |
| 22.        |               |    |                      |   |
| 23.        |               |    |                      |   |
| 24.        |               |    |                      |   |
| 25.        |               |    |                      |   |
| 26.        |               |    |                      |   |
| 27.        |               |    |                      |   |
| 28.        |               |    |                      |   |
| 29.        |               |    |                      |   |
| 30.        |               |    |                      |   |

1LCB  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SLCS70

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: EDCG0

Lab Sample ID: SVOL602

Date Received: \_\_\_\_\_

Lab File ID: H1011

Date Extracted: 05/03/00

Sample Volume: 1000 (mL)

Date Analyzed: 05/12/00

Concentrated Extract Volume: 1000 (uL)

Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

| CAS NO.  | COMPOUND                     | CONCENTRATION<br>(ug/L) | Q |
|----------|------------------------------|-------------------------|---|
| 108-95-2 | Phenol                       | 30                      |   |
| 111-44-4 | bis(2-Chloroethyl) ether     | 17                      |   |
| 95-57-8  | 2-Chlorophenol               | 33                      |   |
| 95-48-7  | 2-Methylphenol               | 5                       | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 5                       | U |
| 106-44-5 | 4-Methylphenol               | 5                       | U |
| 621-64-7 | N-Nitroso-di-n-propylamine   | 16                      |   |
| 67-72-1  | Hexachloroethane             | 9                       |   |
| 98-95-3  | Nitrobenzene                 | 5                       | U |
| 78-59-1  | Isophorone                   | 12                      |   |
| 88-75-5  | 2-Nitrophenol                | 5                       | U |
| 105-67-9 | 2,4-Dimethylphenol           | 5                       | U |
| 111-91-1 | bis(2-Chloroethoxy)methane   | 5                       | U |
| 120-83-2 | 2,4-Dichlorophenol           | 5                       | U |
| 91-20-3  | Naphthalene                  | 16                      |   |
| 106-47-8 | 4-Chloroaniline              | 28                      |   |
| 87-68-3  | Hexachlorobutadiene          | 5                       | U |
| 59-50-7  | 4-Chloro-3-methylphenol      | 5                       | U |
| 91-57-6  | 2-Methylnaphthalene          | 5                       | U |
| 77-47-4  | Hexachlorocyclopentadiene    | 5                       | U |
| 88-06-2  | 2,4,6-Trichlorophenol        | 33                      |   |
| 95-95-4  | 2,4,5-Trichlorophenol        | 20                      | U |
| 91-58-7  | 2-Chloronaphthalene          | 5                       | U |
| 88-74-4  | 2-Nitroaniline               | 20                      | U |
| 131-11-3 | Dimethylphthalate            | 5                       | U |
| 208-96-8 | Acenaphthylene               | 5                       | U |
| 606-20-2 | 2,6-Dinitrotoluene           | 5                       | U |
| 99-09-2  | 3-Nitroaniline               | 20                      | U |
| 83-32-9  | Acenaphthene                 | 5                       | U |

Lockheed Martin Services Group  
Environmental Services & Technologies Region 5  
536 South Clark Street #1050 Chicago, IL 60605  
Telephone 312-353-8302 Facsimile 312-353-8307

LOCKHEED MARTIN 

Date: June 23, 2000

To: Richard Byvik, EPA WAM

From: W. Ira Wilson, ESAT Chemist

Thru: Ziyad Rajabi, ESAT Team Manager

Copies: W. Ira Wilson, ESAT Organic Group Leader  
Jay Thakkar, ESAT Contract RPO

Ref: TDF# 5207-1029  
WA# 05-00-4-07  
Contract # 68D60002

SUBJECT: Organic Data Review for Case 27986 ; SDG # EDCG0. Volatile and Semivolatile Analyses Using SOW OLC02.1(Low Conc. Analysis).

Attached is the deliverable for Case 27986, SDG EDCG0 of Volatile and Semivolatile analysis for seventeen (17) water samples. Included in the deliverable is the Manually prepare case narrative. If you have any question please feel free to contact Ira Wilson; 312/353-2947.

MW w/o EP  
VOC & SVOCs

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

ILCC

EPA SAMPLE NO.

SLCS70

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004  
 Lab Code: PDP Case No.: 27986 SAS No.: \_\_\_\_\_ SDG No.: EDCG0  
 Lab Sample ID: SVOL602 Date Received: \_\_\_\_\_  
 Lab File ID: H1011 Date Extracted: 05/03/00  
 Sample Volume: 1000 (mL) Date Analyzed: 05/12/00  
 Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0  
 Injection Volume: 1 (uL)

| CAS NO.   | COMPOUND                   | CONCENTRATION (ug/L) | Q |
|-----------|----------------------------|----------------------|---|
| 51-28-5   | 2,4-Dinitrophenol          | 20                   | U |
| 100-02-7  | 4-Nitrophenol              | 20                   | U |
| 132-64-9  | Dibenzofuran               | 5                    | U |
| 121-14-2  | 2,4-Dinitrotoluene         | 12                   |   |
| 84-66-2   | Diethylphthalate           | 14                   |   |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 5                    | U |
| 86-73-7   | Fluorene                   | 5                    | U |
| 100-01-6  | 4-Nitroaniline             | 20                   | U |
| 534-52-1  | 4,6-Dinitro-2-methylphenol | 20                   | U |
| 86-30-6   | N-Nitrosodiphenylamine (1) | 14                   |   |
| 101-55-3  | 4-Bromophenyl-phenylether  | 5                    | U |
| 118-74-1  | Hexachlorobenzene          | 14                   |   |
| 87-86-5   | Pentachlorophenol          | 20                   | U |
| 85-01-8   | Phenanthrene               | 5                    | U |
| 120-12-7  | Anthracene                 | 5                    | U |
| 84-74-2   | Di-n-butylphthalate        | 5                    | U |
| 206-44-0  | Fluoranthene               | 5                    | U |
| 129-00-0  | Pyrene                     | 5                    | U |
| 85-68-7   | Butylbenzylphthalate       | 5                    | U |
| 91-94-1   | 3,3'-Dichlorobenzidine     | 5                    | U |
| 56-55-3   | Benzo(a)anthracene         | 5                    | U |
| 218-01-9  | Chrysene                   | 5                    | U |
| 117-81-7  | bis(2-Ethylhexyl)phthalate | 5                    | U |
| 117-84-0  | Di-n-octylphthalate        | 5                    | U |
| 205-99-2  | Benzo(b)fluoranthene       | 5                    | U |
| 207-08-9  | Benzo(k)fluoranthene       | 5                    | U |
| 50-32-8   | Benzo(a)pyrene             | 15                   |   |
| 193-39-5  | Indeno(1,2,3-cd)Pyrene     | 5                    | U |
| 53-70-3   | Dibenz(a,h)anthracene      | 5                    | U |
| 191-24-2  | Benzo(g,h,i)perylene       | 5                    | U |

(1) - Cannot be separated from Diphenylamine

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION V

DATE:

SUBJECT: Review of Data  
Received for Review on 5-23-00

FROM: Stephen L. Ostrodka, Chief (SMF-4J) *for Stephen Ostrodka*  
Superfund Field Services Section *Michael J. Reynolds*  
*6/27/00*

TO: Data User: USEPA

We have reviewed the data for the following case:

SITE NAME: HIMCO DUMP (IN)

CASE NUMBER: 27986 SDG NUMBER: E00FL

Number and Type of Samples: 19 (WATER)

*NRG  
6/27/00*

Sample Numbers: E00FL, E00FF, E00FG-H, E00FJ, E00F4-6, E00FK

Laboratory: PDP E01TP-Q, ECFN2-6, ECFN8-9, ECFPI  
Hrs for Review: 12.5

Following are our findings:

*The data are usable and acceptable with the  
qualifications described in the attached minutes  
Michael J. Reynolds*

CC: Cecilia Moore  
Region 5 TPO  
Mail Code: SM-5J

Lockheed Martin Services Group  
Environmental Services & Technologies Region 5  
536 South Clark Street #1050 Chicago, IL 60605  
Telephone 312-353-8302 Facsimile 312-353-8307

LOCKHEED MARTIN



Date: June 23, 2000

To: Richard Byvik, EPA WAM

From: W. Ira Wilson, ESAT Chemist

Thru: Ziyad Rajabi, ESAT Team Manager

Copies: W. Ira Wilson, ESAT Organic Group Leader  
Jay Thakkar, ESAT Contract RPO

Ref: TDF# 5207-1033  
WA# 05-00-4-07  
Contract # 68D60002

SUBJECT: Organic Data Review for Case 27986 ; SDG # E00FL. Volatile and Semivolatile Analyses Using SOW OLC02.1(Low Conc. Analysis).

Attached is the deliverable for Case 27986, SDG E00FL of Volatile and Semivolatile analysis for nineteen (19) water samples. Included in the deliverable is the Manually prepare case narrative. If you have any question please feel free to contact Ira Wilson; 312/353-2947.

MW w/6P  
VOCs + SVOCs

NARRATIVE

LABORATORY: PDP ANALYTICAL SRVs.  
SDG: E00FL

Page 2 of 9

CASE: 27986

SITE: HIMCO LANDFILL

This review covers nineteen (19) low concentration water samples, numbered E00FL, E00FF - E00FH, E00FJ, E00FK, E00F4 - E00F6, E01TP, E01TQ, ECFN2 - ECFN9, and ECFP1, were collected on 05/1, 2 and 3/2000. The PDP Analytical Services, of Woodland, TX received the samples on 05/5/2000, in good condition. The samples were analyzed for low concentration VOAs and SVOAs. All samples were analyzed per CLP SOW OLC02.1.

Laboratory Control Samples (LCS) Identified as VLCS65, VLCS66, VLCS02 and VLCS03 (VOAs) and SLCS73 and SLCS76 (SVOAs) were analyzed in place of matrix spike/matrix spike duplicate (MS/MSD) samples.

The VOA samples were analyzed within the holding time of fourteen (14) days for preserved water samples and the SVOA samples were extracted within the required holding time of seven days. The analysis of the semivolatiles were performed within forty (40) days. Therefore, the results for the VOA and SVOA fractions are acceptable.

The reviewer's narrative and data qualifiers are noted in the following pages.

Reviewed by: W. Ira Wilson\_\_Lockheed Martin/ESAT

Date: \_\_June 23, 2000

**NARRATIVE**

**LABORATORY: PDP ANALYTICAL SRVs.**  
**SDG: E00FL**

**CASE: 27986**  
**SITE: HIMCO LANDFILL**

Page 3 of 9

Below is a summary of the out-of-control audits and the possible effect on the data for this case.

**1. HOLDING TIME**

This review covers nineteen (19) low concentration water samples, numbered E00FL, E00FF - E00FH, E00FJ, E00FK, E00F4 - E00F6, E01TP, E01TQ, ECFN2 - ECFN9, and ECFP1, were collected on 05/1, 2, and 3/2000. The PDP Analytical Services, of Woodland, TX received the samples on 05/5/2000 in good condition. The samples were analyzed for low concentration VOAs and SVOAs. All samples were analyzed per CLP SOW OLC02.1.

The VOA samples were analyzed within the holding time of fourteen (14) days for preserved water samples; therefore, the results are acceptable.

The SVOA samples were extracted within the holding time of seven (7) days. The extracts were promptly analyzed within the required 40 days criteria. Therefore; the results are acceptable.

**2. GC/MS TUNING AND GC PERFORMANCE**

GC/MS tuning complied with the mass list and ion abundance criteria for BFB and DFTPP.

**3. CALIBRATION**

Initial and continuing calibration standards of VOA and SVOA were evaluated for the Target Compounds List (TCL) and outliers were recorded on the outlier forms included as a part of this narrative.

**4. METHOD BLANK**

Blanks VBLK65, VBLK66, VBLK02 and VBLK03 are the low concentration water Volatile Method Blanks. The Method Blanks were clean, no TCLs or TICs reported. Blank VHBLK01 is identified as a Holding Blank sample which was also clean.

Reviewed by: W. Ira Wilson\_\_Lockheed Martin/ESAT

Date: \_\_June 23 , 2000

:

**NARRATIVE**

**LABORATORY: PDP ANALYTICAL SRVs.**  
**SDG: E00FL**

**CASE: 27986**  
**SITE: HIMCO LANDFILL**

Page 4 of 9

Blank SBLK44 and SBLK47 are the low conc. water Semivolatile Method Blanks. The Blanks reported no TCLs and no TICs.

Please refer to Form-IV LCV and Form-IV LCSV for a list of associated samples.

**5. SURROGATE RECOVERY AND SYSTEM MONITORING COMPOUNDS**

The low concentration recovery of the system monitoring spiking Compound (BFB = Bromofluorobenzene) for the volatile analysis and the surrogate compounds for the semivolatile analysis met the required QC limits for all samples; therefore, all results are acceptable.

**6 MATRIX SPIKE/MSD SAMPLES**

A Laboratory Control (LCS) Samples identified as VLCS65, VLCS66, VLCS02 and VLCS03 (for volatiles) and SLCS73 and SLCS76 (for semivolatiles) were used in place of a matrix spike/matrix spike duplicate sample for the low concentration analysis. All spike recoveries were within the QC limits; therefore, the results are acceptable.

**7. FIELD BLANK AND FIELD DUPLICATE**

No samples were identified as Trip Blanks, Field Blanks or Duplicates. Results are not qualified based upon the results of the Field Blanks or Duplicates.

**8. INTERNAL STANDARDS**

The internal standard retention times and area counts for the low concentration volatile and semivolatile samples were within the required QC limits; therefore, the results are acceptable.

**9. COMPOUND IDENTIFICATION**

Reviewed by: W. Ira Wilson\_\_Lockheed Martin/ESAT

Date: \_\_June 23 , 2000

NARRATIVE

LABORATORY: PDP ANALYTICAL SRVs.  
SDG: E00FL

CASE: 27986  
SITE: HIMCO LANDFILL

Page 5 of 9

Target compounds and TICs were correctly identified by "best fit" library search method.

**10. COMPOUND QUANTITATION AND REPORTED DETECTION LIMITS**

VOA and SVOA Target Compounds (TCLs) and Tentative Identified Compounds (TICs) were properly quantitated; therefore, the results are acceptable.

**11. SYSTEM PERFORMANCE**

GC/MS baseline indicated acceptable performance.

GC baseline for pest/PCB analysis indicated acceptable performance.

**12. ADDITIONAL INFORMATION**

None.

Reviewed by: W. Ira Wilson\_\_Lockheed Martin/ESAT

Date: \_\_June 23 , 2000

CALIBRATION OUTLIERS  
 LOW CONCENTRATION WATER VOLATILE TCL COMPOUNDS  
 (page 1 of 1)

BASESAS# 27986  
 COLUMN# DB624  
 HEATED PURGE(Y/N):

LABORATORY PDP ANALYTICAL  
 SITENAME MIHCO LANDFILL

| Instrument#                 | Initial Cal        | Contin Cal          | Contin Cal         | Contin Cal          | Contin Cal |
|-----------------------------|--------------------|---------------------|--------------------|---------------------|------------|
| <b>FHS973</b>               |                    |                     |                    |                     |            |
| Date/Time:                  | <u>5/5/00-1235</u> | <u>5/5/00-1400</u>  | <u>5/8/00-1251</u> |                     |            |
| #                           | ff                 | ff                  | ff                 | ff                  | ff         |
|                             | %RSD               | %d                  | %d                 | %d                  | %d         |
| Chloromethane               | 0.01               |                     |                    |                     |            |
| Bromomethane                | 0.10               |                     |                    |                     |            |
| Vinyl chloride              | 0.10               |                     |                    |                     |            |
| Chloroethane                | 0.01               |                     |                    |                     |            |
| Methylene chloride          | 0.01               |                     |                    |                     |            |
| Acetone                     | 0.01               |                     |                    |                     |            |
| Carbon disulfide            | 0.01               |                     |                    |                     |            |
| 1,1-Dichloroethene          | 0.10               | <u>0.323</u>        | <u>0.306</u>       | <u>0.108 25.4 J</u> |            |
| 1,1-Dichloroethane          | 0.20               |                     |                    |                     |            |
| Cis-1,2-Dichloroethene      | 0.10               |                     |                    |                     |            |
| trans-1,2-Dichloroethene    | 0.10               |                     |                    |                     |            |
| Chloroform                  | 0.20               |                     |                    |                     |            |
| 1,2-Dichloroethane          | 0.10               |                     |                    |                     |            |
| 2-Butanone                  | 0.01               | <u>0.030</u>        | <u>0.032</u>       | <u>0.021 30.0 J</u> |            |
| Bromochloromethane          | 0.05               |                     |                    |                     |            |
| 1,1,1-Trichloroethane       | 0.10               |                     |                    |                     |            |
| Carbon tetrachloride        | 0.10               |                     |                    |                     |            |
| Bromodichloromethane        | 0.20               |                     |                    |                     |            |
| 1,2-Dichloropropane         | 0.01               |                     |                    |                     |            |
| Cis-1,3-Dichloropropene     | 0.20               | <u>0.408</u>        | <u>0.377</u>       | <u>0.296 27.5 J</u> |            |
| Trichloroethene             | 0.30               |                     |                    |                     |            |
| Bromochloromethane          | 0.10               |                     |                    |                     |            |
| 1,1,2-Trichloroethane       | 0.10               |                     |                    |                     |            |
| Benzene                     | 0.40               |                     |                    |                     |            |
| trans-1,3-Dichloropropene   | 0.10               |                     |                    |                     |            |
| Bromoform                   | 0.05               |                     |                    |                     |            |
| 2-Methyl-2-Pentanone        | 0.01               |                     |                    |                     |            |
| 2-Hexanone                  | 0.01               | <u>0.057</u>        | <u>0.054</u>       | <u>0.091 28.1 J</u> |            |
| Tetrachloroethene           | 0.10               |                     |                    |                     |            |
| 1,1,2,2-Tetrachloroethane   | 0.10               |                     |                    |                     |            |
| 1,2-Dibromoethane           | 0.10               |                     |                    |                     |            |
| Diene                       | 0.40               |                     |                    |                     |            |
| Chlorobenzene               | 0.50               |                     |                    |                     |            |
| Ethylbenzene                | 0.10               |                     |                    |                     |            |
| Styrene                     | 0.30               |                     |                    |                     |            |
| Xylene (total)              | 0.30               |                     |                    |                     |            |
| 1,2-Dibromo-3-chloropropane | 0.10               | <u>0.055 33.5 J</u> | <u>0.060</u>       | <u>0.060</u>        |            |
| 1,3-Dichlorobenzene         | 0.40               |                     |                    |                     |            |
| 1,4-Dichlorobenzene         | 0.40               |                     |                    |                     |            |
| 1,2-Dichlorobenzene         | 0.40               |                     |                    |                     |            |
| 1,2,4-Trichlorobenzene      | 0.40               | <u>0.416</u>        | <u>0.776</u>       | <u>0.538 34.1 J</u> |            |
| 4-Bromobenzene              | 0.20               |                     |                    |                     |            |

|                   |         |        |
|-------------------|---------|--------|
| Samples affected: | VBLK65  | VBLK66 |
|                   | VLCS65  | VLCS66 |
|                   | E00FE   | E00FH  |
|                   | E00FL   | E00FJ  |
|                   | E00FG   | E00FK  |
|                   |         | E00FA  |
|                   | WJW     |        |
|                   | 6/22/00 |        |

Reviewer's Init./Date WJW  
6/22/00

J/R= All positive results are estimated "J" and non-detected results are unusable "R"  
 \*\* = These flags should be applied to the analytes on the sample data sheets  
 # = Minimum Relative Response Factor

CALIBRATION OUTLIERS  
 LOW CONCENTRATION WATER VOLATILE TCL COMPOUNDS  
 (page 1 of 1)

LABORATORY # 27986  
 MN: DB 624  
 PURGE (Y/N)

LABORATORY PDP ANALYTICAL  
 SITE NAME HIMCO LAKEFILL

| Instrument#                 | Initial cal         | Contin cal          | Contin Cal          | Contin Cal           | Contin Cal |
|-----------------------------|---------------------|---------------------|---------------------|----------------------|------------|
| <u>E-HP5472</u>             |                     |                     |                     |                      |            |
| Date/Time:                  | <u>5/10/00-1336</u> | <u>5/10/00-2423</u> | <u>5/11/00-2244</u> |                      |            |
|                             | #                   | %RSD                | %RSD                | %RSD                 | %RSD       |
| Chloromethane               | 0.01                |                     |                     |                      |            |
| Bromomethane                | 0.10                |                     |                     |                      |            |
| Vinyl chloride              | 0.10                |                     |                     |                      |            |
| Chloroethane                | 0.01                |                     |                     |                      |            |
| Methylene chloride          | 0.01                |                     |                     |                      |            |
| Acetone                     | 0.01                | <u>0.011</u>        | <u>0.009</u>        | <u>0.049 345 J</u>   |            |
| Carbon disulfide            | 0.01                |                     |                     |                      |            |
| 1,1-Dichloroethane          | 0.10                |                     |                     |                      |            |
| 1,1-Dichloroethane          | 0.20                |                     |                     |                      |            |
| cis-1,2-Dichloroethane      | 0.10                |                     |                     |                      |            |
| trans-1,2-Dichloroethane    | 0.10                |                     |                     |                      |            |
| Chloroform                  | 0.20                |                     |                     |                      |            |
| 1,2-Dichloroethane          | 0.10                |                     |                     |                      |            |
| 2-Butanone                  | 0.01                | <u>0.019</u>        | <u>0.007</u>        | <u>0.080 375.7 J</u> |            |
| Bromochloromethane          | 0.05                |                     |                     |                      |            |
| 1,1,1-Trichloroethane       | 0.10                |                     |                     |                      |            |
| 1,1,1,1-tetrachloroethane   | 0.10                |                     |                     |                      |            |
| 1,1,2-Dichloroethane        | 0.20                |                     |                     |                      |            |
| 1,2-Dichloropropane         | 0.01                |                     |                     |                      |            |
| cis-1,3-Dichloropropane     | 0.20                |                     |                     |                      |            |
| Trichloroethene             | 0.30                |                     |                     |                      |            |
| Dibromochloromethane        | 0.10                |                     |                     |                      |            |
| 1,1,2-trichloroethane       | 0.10                |                     |                     |                      |            |
| Benzene                     | 0.40                |                     |                     |                      |            |
| trans-1,3-Dichloropropane   | 0.10                |                     |                     |                      |            |
| Bromoform                   | 0.05                |                     |                     |                      |            |
| Methyl-2-Pentanone          | 0.01                | <u>0.077</u>        |                     | <u>0.398 416.9 J</u> |            |
| Pentanone                   | 0.01                | <u>0.056</u>        | <u>0.053</u>        | <u>0.277 394.6 J</u> |            |
| Tetrachloroethene           | 0.10                |                     |                     |                      |            |
| 1,1,2,2-tetrachloroethane   | 0.10                |                     |                     |                      |            |
| 1,2-Dibromoethane           | 0.10                |                     |                     |                      |            |
| Toluene                     | 0.40                |                     |                     |                      |            |
| Chlorobenzene               | 0.50                |                     |                     |                      |            |
| Ethylbenzene                | 0.10                |                     |                     |                      |            |
| Styrene                     | 0.30                |                     |                     |                      |            |
| Xylene (total)              | 0.30                |                     |                     |                      |            |
| 1,2-Dibromo-3-chloropropane | 0.10                |                     |                     |                      |            |
| 1,3-Dichlorobenzene         | 0.40                |                     |                     |                      |            |
| 1,4-Dichlorobenzene         | 0.40                |                     |                     |                      |            |
| 1,2-Dichlorobenzene         | 0.40                |                     |                     |                      |            |
| 1,2,4-Trichlorobenzene      | 0.40                |                     |                     |                      |            |
| 4-Bromofluorobenzene        | 0.20                |                     |                     |                      |            |

| Samples affected: |                 |                 |  |
|-------------------|-----------------|-----------------|--|
|                   | <u>VBLK02</u>   | <u>VBUS03</u>   |  |
|                   | <u>VLC502</u>   | <u>VLC503</u>   |  |
|                   | <u>ECDF5</u>    | <u>ECFN4 N9</u> |  |
|                   | <u>ECDF6</u>    | <u>ECITP</u>    |  |
|                   | <u>ECFN2</u>    | <u>ECITQ</u>    |  |
|                   | <u>Throvs 4</u> | <u>ECFR1</u>    |  |
|                   | <u>ECFN6</u>    | <u>VHBLK01</u>  |  |
|                   |                 |                 |  |
|                   |                 |                 |  |
|                   |                 |                 |  |
|                   |                 |                 |  |
|                   |                 |                 |  |

Reviewer's Init. WKA  
 Date 6/22/00

J/R = All positive results are estimated "J" and non-detected results are unusable "R"  
 \* = These flags should be applied to the analytes on the sample data sheets  
 R = Minimum Relative Response Factor  
 ESAT-5-021 5 10 99

Pg 8 of 9

CALIBRATION OUTLIER  
LOW CONCENTRATION WATER SEMIVOLATILE TCL COMPOUNDS  
(Page 1 of 2)

CASE/SAS#: 27986  
COLUMN: \_\_\_\_\_

LABORATORY: PDB ANALYTICAL  
SITE NAME: HULLCO LANDFILL

| Instrument#                 | Initial Cal. | Contin. Cal. | Contin. Cal. | Contin. Cal. | Contin. Cal. |      |   |       |      |   |    |    |   |
|-----------------------------|--------------|--------------|--------------|--------------|--------------|------|---|-------|------|---|----|----|---|
| Date/Time:                  | 5/2/00 10:33 |              | 5/16/00-1229 |              | 5/17/00-6046 |      |   |       |      |   |    |    |   |
|                             | #            | rf           | %rsd         | *            | rf           | %d   | * | rf    | %d   | * | rf | %d | * |
| Phenol                      | 0.80         | 1.854        |              |              | 1.371        | 27.4 | J | 1.174 |      |   |    |    |   |
| bis(2-chloroethyl) Ether    | 0.70         | 1.325        |              |              | 0.949        | 29.4 | J | 1.030 |      |   |    |    |   |
| 2-Chlorophenol              | 0.70         |              |              |              |              |      |   |       |      |   |    |    |   |
| 2-Methylphenol              | 0.70         |              |              |              |              |      |   |       |      |   |    |    |   |
| 2,2'-Oxybis(1-chl-propane)  | 0.01         | 1.147        |              |              | 0.404        | 64.9 | J | 0.421 | 63.1 | J |    |    |   |
| 4-Methylphenol              | 0.60         |              |              |              |              |      |   |       |      |   |    |    |   |
| N-nitroso-di-n-propylamine  | 0.50         |              |              |              |              |      |   |       |      |   |    |    |   |
| Hexachloroethane            | 0.30         |              |              |              |              |      |   |       |      |   |    |    |   |
| Nitrobenzene                | 0.20         |              |              |              |              |      |   |       |      |   |    |    |   |
| Isophorone                  | 0.40         |              |              |              |              |      |   |       |      |   |    |    |   |
| 2-Nitrophenol               | 0.10         |              |              |              |              |      |   |       |      |   |    |    |   |
| 2,4-Dimethylphenol          | 0.20         |              |              |              |              |      |   |       |      |   |    |    |   |
| bis-(2-chloroethoxy)methane | 0.30         |              |              |              |              |      |   |       |      |   |    |    |   |
| 2,4-Dichlorophenol          | 0.20         |              |              |              |              |      |   |       |      |   |    |    |   |
| 1,2,4-Trichlorobenzene      | 0.20         |              |              |              |              |      |   |       |      |   |    |    |   |
| Naphthalene                 | 0.70         |              |              |              |              |      |   |       |      |   |    |    |   |
| 4-Chloroaniline             | 0.01         | 0.286        |              |              | 0.189        | 48.4 | J | 0.163 | 55.5 | J |    |    |   |
| Hexachlorobutadiene         | 0.01         | 0.237        |              |              | 0.332        | 39.9 | J | 0.337 | 42.0 | J |    |    |   |
| 4-Chloro-3-methylphenol     | 0.20         |              |              |              |              |      |   |       |      |   |    |    |   |
| 2-Methylnaphthalene         | 0.40         |              |              |              |              |      |   |       |      |   |    |    |   |
| Hexachlorocyclopentadiene   | 0.01         | 0.328        |              |              | 0.456        | 38.4 | J | 0.387 |      |   |    |    |   |
| 2,4,6-Trichlorophenol       | 0.20         |              |              |              |              |      |   |       |      |   |    |    |   |
| 2,4,5-Trichlorophenol       | 0.20         |              |              |              |              |      |   |       |      |   |    |    |   |
| 2-Chloronaphthalene         | 0.80         |              |              |              |              |      |   |       |      |   |    |    |   |
| 2-Nitroaniline              | 0.01         |              |              |              |              |      |   |       |      |   |    |    |   |
| Dimethyl phthalate          | 0.01         |              |              |              |              |      |   |       |      |   |    |    |   |
| Acenaphthylene              | 1.30         |              |              |              |              |      |   |       |      |   |    |    |   |
| 2,6-Dinitrotoluene          | 0.20         |              |              |              |              |      |   |       |      |   |    |    |   |
| 3-Nitroaniline              | 0.01         |              |              |              |              |      |   |       |      |   |    |    |   |
| Acenaphthene                | 0.30         |              |              |              |              |      |   |       |      |   |    |    |   |
| 2,4-Dinitrophenol           | 0.01         | 0.104        | 45.7         | J            | 0.154        | 47.4 | J | 0.152 | 45.5 | J |    |    |   |
| 4-Nitrophenol               | 0.01         | 0.233        |              |              | 0.274        |      |   | 0.248 | 27.2 | J |    |    |   |
| Dibenzofuran                | 0.80         |              |              |              |              |      |   |       |      |   |    |    |   |
| 2,4-Dinitrotoluene          | 0.20         |              |              |              |              |      |   |       |      |   |    |    |   |

Affected samples:

|              |       |
|--------------|-------|
| SBLK44       | ECFNL |
| SLCS73       | ECFNS |
| EDDF, EC, FH | EDITP |
| EDDF, FS     | EDITQ |
| EDDF, FS     | ECFPI |
| SBLK47       |       |
| SLCS76       |       |
| ECFNS-NS     |       |

Reviewer's Init/Date: [Signature] 6/27/00

J/R = All positive results are estimated "J" and non-detected results are unusable "R"

- = These flags should be applied to the analytes on the sample data sheets.
- # = Minimum Relative Response Factor

CALIBRATION OUTLIER  
 LOW CONCENTRATION WATER SEMIVOLATILE TCL COMPOUNDS  
 (Page 2 of 2)

Pg 9 of 9

CASE/SAS#: 27986  
 COLUMN: \_\_\_\_\_

LABORATORY: FDA ANALYTICAL  
 SITE NAME: HIMCO LANDFILL

| Instrument#                | Initial Cal. | Contin. Cal. |      |   | Contin. Cal. |      |   | Contin. Cal. |       |   |              |    |   |  |  |  |  |  |  |  |
|----------------------------|--------------|--------------|------|---|--------------|------|---|--------------|-------|---|--------------|----|---|--|--|--|--|--|--|--|
|                            |              | rf           | %rsd | * | rf           | %d   | * | rf           | %d    | * | rf           | %d | * |  |  |  |  |  |  |  |
| 44 - HPS97B                | 5/2/00-1033  |              |      |   | 5/16/00-1229 |      |   |              |       |   | 5/17/00-9046 |    |   |  |  |  |  |  |  |  |
| Date/Time:                 |              | #            |      |   |              |      |   |              |       |   |              |    |   |  |  |  |  |  |  |  |
| Diethylphthalate           | 0.01         |              |      |   |              |      |   |              |       |   |              |    |   |  |  |  |  |  |  |  |
| 4-Chlorophenyl-phenylether | 0.40         |              |      |   |              |      |   |              |       |   |              |    |   |  |  |  |  |  |  |  |
| Fluorene                   | 0.90         |              |      |   |              |      |   |              |       |   |              |    |   |  |  |  |  |  |  |  |
| 4-Nitroaniline             | 0.01         |              |      |   |              |      |   |              |       |   |              |    |   |  |  |  |  |  |  |  |
| 4,6-Dinitro-2-methylphenol | 0.01         | 0.16         |      |   | 0.163        | 40.3 |   | J            | 0.145 |   |              |    |   |  |  |  |  |  |  |  |
| N-nitrosodiphenylamine     | 0.01         |              |      |   |              |      |   |              |       |   |              |    |   |  |  |  |  |  |  |  |
| 4-Bromophenyl-phenylether  | 0.10         |              |      |   |              |      |   |              |       |   |              |    |   |  |  |  |  |  |  |  |
| Hexachlorobenzene          | 0.10         |              |      |   |              |      |   |              |       |   |              |    |   |  |  |  |  |  |  |  |
| Pentachlorophenol          | 0.05         |              |      |   |              |      |   |              |       |   |              |    |   |  |  |  |  |  |  |  |
| Phenanthrene               | 0.70         |              |      |   |              |      |   |              |       |   |              |    |   |  |  |  |  |  |  |  |
| Anthracene                 | 0.70         |              |      |   |              |      |   |              |       |   |              |    |   |  |  |  |  |  |  |  |
| Di-n-butylphthalate        | 0.01         |              |      |   |              |      |   |              |       |   |              |    |   |  |  |  |  |  |  |  |
| Fluoranthene               | 0.60         |              |      |   |              |      |   |              |       |   |              |    |   |  |  |  |  |  |  |  |
| Pyrene                     | 0.60         |              |      |   |              |      |   |              |       |   |              |    |   |  |  |  |  |  |  |  |
| Butylbenzylphthalate       | 0.01         |              |      |   |              |      |   |              |       |   |              |    |   |  |  |  |  |  |  |  |
| 3'-Dichlorobenzidine       | 0.01         |              |      |   |              |      |   |              |       |   |              |    |   |  |  |  |  |  |  |  |
| Benzo(a)anthracene         | 0.80         |              |      |   |              |      |   |              |       |   |              |    |   |  |  |  |  |  |  |  |
| Chrysene                   | 0.70         |              |      |   |              |      |   |              |       |   |              |    |   |  |  |  |  |  |  |  |
| bis(2-Ethylhexyl)phthalate | 0.01         |              |      |   |              |      |   |              |       |   |              |    |   |  |  |  |  |  |  |  |
| Di-n-octyl phthalate       | 0.01         |              |      |   |              |      |   |              |       |   |              |    |   |  |  |  |  |  |  |  |
| Benzo(b)fluoranthene       | 0.70         |              |      |   |              |      |   |              |       |   |              |    |   |  |  |  |  |  |  |  |
| Benzo(k)fluoranthene       | 0.70         |              |      |   |              |      |   |              |       |   |              |    |   |  |  |  |  |  |  |  |
| Benzo(a)pyrene             | 0.70         |              |      |   |              |      |   |              |       |   |              |    |   |  |  |  |  |  |  |  |
| Indeno(1,2,3-cd)pyrene     | 0.50         |              |      |   |              |      |   |              |       |   |              |    |   |  |  |  |  |  |  |  |
| Dibenz(a,h)anthracene      | 0.40         |              |      |   |              |      |   |              |       |   |              |    |   |  |  |  |  |  |  |  |
| Benzo(g,h,i)perylene       | 0.50         |              |      |   |              |      |   |              |       |   |              |    |   |  |  |  |  |  |  |  |
| Nitrobenzene-d5            | 0.01         |              |      |   |              |      |   |              |       |   |              |    |   |  |  |  |  |  |  |  |
| 2-Fluorobiphenyl           | 0.70         |              |      |   |              |      |   |              |       |   |              |    |   |  |  |  |  |  |  |  |
| Terphenyl-d14              | 0.50         |              |      |   |              |      |   |              |       |   |              |    |   |  |  |  |  |  |  |  |
| Phenol-d5                  | 0.80         |              |      |   |              |      |   |              |       |   |              |    |   |  |  |  |  |  |  |  |
| 2-Fluorophenol             | 0.60         |              |      |   |              |      |   |              |       |   |              |    |   |  |  |  |  |  |  |  |
| 2,4,6-Tribromophenol       | 0.01         |              |      |   |              |      |   |              |       |   |              |    |   |  |  |  |  |  |  |  |

Reviewer's Init/Date: Wke  
6/22/01

J/R = All positive results are estimated "J" and non-detected results are unusable "R"

- \* = These flags should be applied to the analytes on the sample data sheets.
- # = Minimum Relative Response Factor

## ORGANIC DATA QUALIFIER DEFINITIONS

For the purpose of defining the flagging nomenclature used in this document, the following code letters and associated definitions are provided:

VALUE - when/if the result of a value is greater than or equal to the Contract Required Quantitation Limit (CRQL).

- U Indicates that the compound was analyzed for, but not detected. The sample quantitation limit corrected for dilution and percent moisture is reported.
- J Indicates an estimated value. This flag is used either when estimating a concentration for a tentatively identified compound or when the data indicates the presence of a compound where the result is less than the sample quantitation limit, but greater than zero. The flag is also used to indicate a reported result having an associated QC problem.
- R Indicates the data are unusable. (NOTE: The analyte may or may not be present.)
- N Indicates presumptive evidence of a compound. This flag is only used for a tentatively identified compound, where the identification is based on a mass spectral library search.
- P Indicates a pesticide/Aroclor target analyte when there is greater than 25% difference for the detected concentrations between the two GC columns. The lower of the two results is reported.
- C Indicates pesticide results that have been confirmed by GC/MS.
- B Indicates the analyte is detected in the associated blank as well as in the sample.
- E Indicates compounds whose concentrations exceed the calibration range of the instrument.
- D Indicates an identified compound in an analysis has been diluted. This flag alerts the data user to any differences between the concentrations reported in the two analysis.
- A Indicates tentatively identified compounds that are suspected to be aldol condensation products.
- G Indicates the TCLP Matrix Spike Recovery was greater than the upper limit of the analytical method.
- L Indicates the TCLP Matrix Spike Recovery was less than the lower limit of the analytical method.
- T Indicates the analyte is found in the associated TCLP extraction blank as well as in the sample.

X,Y,Z are reserved for laboratory defined flags.



United States Environmental Protection Agency  
Contract Laboratory Program

**Organic Traffic Report  
& Chain of Custody Record**  
(For Organic CLP Analysis)

DG No.

Case No.

|   |  |   |              |                 |         |                                |               |
|---|--|---|--------------|-----------------|---------|--------------------------------|---------------|
| <b>1. Matrix</b><br>(Enter in Column A)<br><br>1. Surface Water<br>2. Ground Water<br>3. Leachate<br>4. Field QC<br>5. Soil/Sediment<br>6. PE-water<br>7. PE-soil<br>8. Other (specify in Column A) | <b>2. Preservative</b><br>(Enter in Column D)<br><br>1. HCl<br>2. HNO3<br>3. NaHSO4<br>4. H2SO4<br>5. Ice only<br>6. CH3OH<br>7. Other (specify in Column D)<br>N. Not Preserved | 3. Region No.   | Sampling Co. | 5. Date Shipped | Carrier | 7. Date Received--Received by: |               |
|   |  | Sampler (Name)  |              | Airbill Number  |         | Laboratory Contract No         | Unit Price    |
|   |  | Sampler Signature   |              | 6. Ship To:     |         | 8. Transfer to:                | Date Received |
|   |  | 4. Purpose**<br>Lead <input type="checkbox"/> SF <input type="checkbox"/> PRP <input type="checkbox"/> ST <input type="checkbox"/> FED <input type="checkbox"/> BZ<br>Early Action <input type="checkbox"/> IA <input type="checkbox"/> PA <input type="checkbox"/> REM <input type="checkbox"/> RI <input type="checkbox"/> SI <input type="checkbox"/> ESI<br>Long Term Action <input type="checkbox"/> RIFS <input type="checkbox"/> RD <input type="checkbox"/> RA <input type="checkbox"/> O&M |              | ATTN: _____     |         | Contract Number |  | Price |

| CLP Sample Numbers (from labels) | A Matrix (from Box 1) Other | B Conc Low Med | C Sample Type Comp/Grab | D Preservative (from Box 2) Other | E RAS Analysis  |                 |                 | F Regional Specific Tracking Number or Tag Numbers | G Station Location Identifier | H Mo/Day/Year/Time Sample Collection | I Corresponding CLP Inorganic Sample No. | J Sampler Initials | K Sample Condition |
|----------------------------------|-----------------------------|----------------|-------------------------|-----------------------------------|-----------------|-----------------|-----------------|--|-------------------------------|--------------------------------------|--|--------------------|--------------------|
|                                  |                             |                |                         |                                   | TA (circle one) | TA (circle one) | TA (circle one) |  |                               |                                      |  |                    |                    |
|                                  |                             |                |                         |                                   | PR* 7 14 21     | PR* 7 14 21     | PR* 7 14 21     |  |                               |                                      |  |                    |                    |
| 1                                | 1                           |                | 1                       | 1                                 | A               |                 |                 | 5-3-00-1405565                                     | 107-115                       | 5/3/00 0800                          |  |                    |                    |
| 2                                | 2                           |                | 1                       | 1                                 | X               |                 |                 | 5-3-00-1405565                                     | 107-115                       | 5/3/00 0800                          |  |                    |                    |
| 3                                | 3                           |                | 1                       | 5                                 |                 |                 |                 | 5-3-00-1405565                                     | 107-115                       | 5/3/00 0800                          |  |                    |                    |
| 4                                | 4                           |                | 1                       | 1                                 | X               |                 |                 | 5-3-00-1405565                                     | 107-115                       | 5/3/00 0800                          |  |                    |                    |
| 5                                | 5                           |                | 1                       | 5                                 |                 |                 |                 | 5-3-00-1405565                                     | 107-115                       | 5/3/00 0800                          |  |                    |                    |
| 6                                | 6                           |                | 1                       | 1                                 | X               |                 |                 | 5-3-00-1405565                                     | 107-115                       | 5/3/00 0800                          |  |                    |                    |
| 7                                | 7                           |                | 1                       | 5                                 |                 |                 |                 | 5-3-00-1405565                                     | 107-115                       | 5/3/00 0800                          |  |                    |                    |
| 8                                | 8                           |                | 1                       | 1                                 | X               |                 |                 | 5-3-00-1405565                                     | 107-115                       | 5/3/00 0800                          |  |                    |                    |

|                                   |         |                                       |                               |                                 |
|-----------------------------------|---------|---------------------------------------|-------------------------------|---------------------------------|
| Shipment for Case Complete? (Y/N) | Page of | VOA MS/MSD Required? Y/N Sample #     | Additional Sampler Signatures | Chain of Custody Seal Number(s) |
|                                   |         | BNA MS/MSD Required? Y/N Sample #     |                               |                                 |
|                                   |         | Pes/PCB MS/MSD Required? Y/N Sample # |                               |                                 |

\*PR provides 7-day data turnaround in addition to preliminary results. Requests for preliminary results will increase analytical costs.

**Chain of Custody Record**

|                             |             |  |                             |   |                           |
|-----------------------------|-------------|--|-----------------------------|---|---------------------------|
| Relinquished by (Signature) | Date / Time | Received by (Signature)                | Relinquished by (Signature) | Date / Time                                 | Received by (Signature)   |
| Relinquished by (Signature) | Date / Time | Received by (Signature)                | Relinquished by (Signature) | Date / Time                                 | Received by (Signature)   |
| Relinquished by (Signature) | Date / Time | Received for Laboratory by (Signature) | Date / Time                 | Remarks: Is custody seal intact? (Y/N) none | Case: 27936<br>SDG: E00FL |

Distribution Blue - Region Copy Pink - SMO Copy  
White - Lab Copy for Return to SMO Yellow - Lab Copy for Return to Region

See Reverse for Additional Standard Instructions  
\*\*See Reverse for Purpose Code Definitions



United States Environmental Protection Agency  
Contract Laboratory Program

**Organic Traffic Report  
& Chain of Custody Record**  
(For Organic CLP Analysis)

SDG No.

Case No.

17186

|  |   |                               |              |  |         |  |                      |
|--|---|-------------------------------|--------------|--|---------|--|----------------------|
| 1. Matrix<br>(Enter in Column A)<br>1. Surface Water<br>2. Ground Water<br>3. Leachate<br>4. Field OC<br>5. Soil/Sediment<br>6. PE-water<br>7. PE-soil<br>8. Other (specify in Column A)   | 2. Preservative<br>(Enter in Column B)<br>1. HCl<br>2. HNO3<br>3. NaHSO4<br>4. H2SO4<br>5. Ice only<br>6. CH3OH<br>7. Other (specify in Column D)<br>N. Not Preserved | 3. Region No.                 | Sampling Co. | 5. Date Shipped  | Carrier | 7. Date Received--Received by:<br>5-3-00 Carlos Ruiz |                      |
|  |   | Sampler (Name)                |              | Airbill Number<br>81829405565  |         | Laboratory Contract No.<br>68-D7-0004                | Unit Price<br>525.00 |
|  |   | Sampler Signature             |              | 6. Ship To:<br>PDM Industrial Services<br>1680 Wilfrid Circle Suite<br>The Woodlands, TX 77380 |         | 8. Transfer to:<br>Date Received                     |                      |
| 4. Purpose**<br>Lead<br><input checked="" type="checkbox"/> SF<br><input type="checkbox"/> PRP<br><input type="checkbox"/> ST<br><input type="checkbox"/> FED<br><input type="checkbox"/> BZ<br>Early Action<br><input type="checkbox"/> IA<br><input type="checkbox"/> PA<br><input type="checkbox"/> REM<br><input type="checkbox"/> RI<br><input type="checkbox"/> SI<br><input type="checkbox"/> ESI<br>Long Term Action<br><input checked="" type="checkbox"/> RIFS<br><input type="checkbox"/> RD<br><input type="checkbox"/> RA<br><input type="checkbox"/> O&M |   | ATTN: <i>Carla Underquist</i> |              | Received by:   |         | Contract Number                                      | Price                |

| CLP Sample Numbers<br>(from labels) | A Matrix<br>(from Box 1)<br>Other | B Conc.<br>Low Med | C Sample Type:<br>Comp/Grab | D Preservative<br>(from Box 2)<br>Other | E RAS Analysis          |                         |                         | F Regional Specific Tracking Number or Tag Numbers | G Station Location Identifier | H Mo/Day/Year/Time Sample Collection | I Corresponding CLP Inorganic Sample No. | J Sampler Initials | K Sample Condition |
|-------------------------------------|-----------------------------------|--------------------|-----------------------------|---|-------------------------|-------------------------|-------------------------|--|-------------------------------|--------------------------------------|--|--------------------|--------------------|
|                                     |                                   |                    |                             |   | TA (circle one)         | TA (circle one)         | TA (circle one)         |  |                               |                                      |  |                    |                    |
|                                     |                                   |                    |                             |   | PR <sup>a</sup> 7 14 21 | PR <sup>a</sup> 7 14 21 | PR <sup>a</sup> 7 14 21 |  |                               |                                      |  |                    |                    |
| 500FL                               | 2                                 | 22                 | 46                          | 1                                       | X                       | ---                     | ---                     | 5-068074-6275                                      | WT115                         | 05/01/00 0800                        | NA                                       |                    |                    |
| 500FF                               | 2                                 | 22                 | 1                           | 1                                       | X                       | ---                     | ---                     | 5-068074-6275                                      | WT115M                        | 05/01/00/1313                        | NA                                       |                    |                    |
| 500FF                               | 2                                 | 22                 | 1                           | 5                                       | ---                     | X                       | ---                     | 5-068052-6033                                      | WT115M                        | 05/01/00/1313                        | NA                                       |                    |                    |
| 500FF                               | 2                                 | 22                 | 1                           | 1                                       | X                       | ---                     | ---                     | 5-068056-607, 608                                  | WTE2                          | 05/01/00/1428                        | NA                                       |                    |                    |
| 500FF                               | 2                                 | 22                 | 1                           | 5                                       | ---                     | X                       | ---                     | 5-068054-6000                                      | WT115                         | 05/01/00/1428                        | NA                                       |                    |                    |
| 500FF                               | 2                                 | 22                 | 1                           | 1                                       | X                       | ---                     | ---                     | 5-068054-600, 601                                  | WTE1                          | 05/02/00/1522                        | NA                                       |                    |                    |
| 500FF                               | 2                                 | 22                 | 1                           | 5                                       | ---                     | X                       | ---                     | 5-068054-600, 601                                  | WTE1                          | 05/02/00/1052                        | NA                                       |                    |                    |
| 500FF                               | 2                                 | 22                 | 1                           | 1                                       | X                       | ---                     | ---                     | 5-068054-600, 601                                  | WT115                         | 05/01/00/1428                        | NA                                       |                    |                    |
| 500FF                               | 2                                 | 22                 | 1                           | 5                                       | ---                     | X                       | ---                     | 5-068054-600, 601                                  | WT115                         | 05/01/00/1428                        | NA                                       |                    |                    |
| 500FF                               | 2                                 | 22                 | 1                           | 1                                       | X                       | ---                     | ---                     | 5-068054-600, 601                                  | WT115                         | 05/01/00/1428                        | NA                                       |                    |                    |
| 500FF                               | 2                                 | 22                 | 1                           | 1                                       | X                       | ---                     | ---                     | 5-068054-600, 601                                  | WT115                         | 05/01/00/1428                        | NA                                       |                    |                    |

|                                   |             |                               |           |                               |                                 |
|-----------------------------------|-------------|-------------------------------|-----------|-------------------------------|---------------------------------|
| Shipment for Case Complete? (Y/N) | Page 1 of 2 | VOA MS/MSD Required? Y/N      | Sample #: | Additional Sampler Signatures | Chain of Custody Seal Number(s) |
|                                   |             | BNA MS/MSD Required? Y/N      | Sample #: | <i>Carla Underquist</i>       | 2115, 1116                      |
|                                   |             | Pest/PCB MS/MSD Required? Y/N | Sample #: |                               |                                 |

<sup>a</sup>PR provides 7-day data turnaround in addition to preliminary results. Requests for preliminary results will increase analytical costs.

**Chain of Custody Record**

|                              |             |   |                              |   |                           |
|------------------------------|-------------|---|------------------------------|---|---------------------------|
| Relinquished by: (Signature) | Date / Time | Received by: (Signature)                | Relinquished by: (Signature) | Date / Time                                 | Received by: (Signature)  |
|                              |             |   |                              |   |                           |
| Relinquished by: (Signature) | Date / Time | Received by: (Signature)                | Relinquished by: (Signature) | Date / Time                                 | Received by: (Signature)  |
|                              |             |   |                              |   |                           |
| Relinquished by: (Signature) | Date / Time | Received for Laboratory by: (Signature) | Date / Time                  | Remarks: Is custody seal intact? (Y/N) none | Case: 27986<br>SDG: E00FL |
|                              |             | <i>Carlos Ruiz</i>                      | 5-3-00/9:02                  |   |                           |

Distribution: Blue - Region Copy, White - Lab Copy, Return to SMO, Pink - SMO Copy, Yellow - Lab Copy for Return to Region

See Reverse for Additional Standard Instructions  
\*\*See Reverse for Purpose Code Defr



**Organic Traffic Report  
& Chain of Custody Record**  
for Organic CLP Analysis

SDG No

Case No

|   |  |  |                              |                                      |                         |   |   |                                 |
|---|--|--|------------------------------|--------------------------------------|-------------------------|---|---|---------------------------------|
| <b>1. Matrix</b><br>(Enter in Column A)<br><br>1. Surface Water<br>2. Ground Water<br>3. Leachate<br>4. Field QC<br>5. Soil/Sediment<br>6. PE-water<br>7. PE-soil<br>8. Other (specify in Column A) | <b>2. Preservative</b><br>(Enter in Column D)<br><br>1. HCl<br>2. HNO3<br>3. NaHSO4<br>4. H2SO4<br>5. Ice only<br>6. CH3OH<br>7. Other (specify in Column D)<br>N. Not Preserved | <b>3. Region No</b><br>_____   | <b>Sampling Co.</b><br>_____ | <b>5. Date Shipped</b><br>5-3-00     | <b>Carrier</b><br>_____ | <b>7. Date Received--Received by:</b><br>5-3-00 Carlos Ruiz |   |                                 |
|   |  | <b>Sampler (Name)</b><br>_____   |                              | <b>Airbill Number</b><br>518-2445565 |                         | <b>Laboratory Contract No</b><br>68-D7-0004                 | <b>Unit Price</b><br>525 <del>xx</del> 1.00 |                                 |
|   |  | <b>Sampler Signature</b><br>_____  |                              | <b>6. Ship To:</b><br>_____          |                         | <b>8. Transfer to:</b><br>_____                             | <b>Date Received</b><br>_____               |                                 |
|   |  | <b>4. Purpose**</b><br>Lead <input type="checkbox"/> SF <input type="checkbox"/> PRP <input type="checkbox"/> ST <input type="checkbox"/> FED <input type="checkbox"/> BZ<br>Early Action <input type="checkbox"/> IA <input type="checkbox"/> PA <input type="checkbox"/> REM <input type="checkbox"/> RI <input type="checkbox"/> SI <input type="checkbox"/> ESI<br>Long Term Action <input type="checkbox"/> RIFS <input type="checkbox"/> RD <input type="checkbox"/> RA <input type="checkbox"/> O&M |                              | <b>ATTN:</b> _____                   |                         | <b>Received by:</b><br>_____                                |   | <b>Contract Number</b><br>_____ |

| CLP Sample Numbers (from labels) | A Mainx (from Box 1) Other | B Conc Low Med | C Sample Type Comp / Grab | D Preservative (from Box 2) Other | E RAS Analysis  |                 |                 | F Regional Specific Tracking Number or Tag Numbers | G Station Location Identifier | H Mo/Day/Year/Time Sample Collection | I Corresponding CLP Inorganic Sample No | J Sampler Initials | K Sample Condition |
|----------------------------------|----------------------------|----------------|---------------------------|-----------------------------------|-----------------|-----------------|-----------------|--|-------------------------------|--------------------------------------|---|--------------------|--------------------|
|                                  |                            |                |                           |                                   | TA (circle one) | TA (circle one) | TA (circle one) |  |                               |                                      |   |                    |                    |
|                                  |                            |                |                           |                                   | PR* 7 14 21     | PR* 7 14 21     | PR* 7 14 21     |  |                               |                                      |   |                    |                    |
|                                  |                            |                |                           |                                   | VOA             | BNA             | Pest/PCB        |  |                               |                                      |   |                    |                    |
|                                  |                            |                |                           |                                   |                 |                 |                 |  |                               |                                      |   |                    |                    |
|                                  |                            |                |                           |                                   |                 |                 |                 |  |                               |                                      |   |                    |                    |
|                                  |                            |                |                           |                                   |                 |                 |                 |  |                               |                                      |   |                    |                    |
|                                  |                            |                |                           |                                   |                 |                 |                 |  |                               |                                      |   |                    |                    |
|                                  |                            |                |                           |                                   |                 |                 |                 |  |                               |                                      |   |                    |                    |
|                                  |                            |                |                           |                                   |                 |                 |                 |  |                               |                                      |   |                    |                    |
|                                  |                            |                |                           |                                   |                 |                 |                 |  |                               |                                      |   |                    |                    |

|                                   |                     |  |  |  |
|-----------------------------------|---------------------|--|--|--|
| Shipment for Case Complete? (Y/N) | Page _____ of _____ | VOA MS/MSD Required? Y/N Sample # _____<br>BNA MS/MSD Required? Y/N Sample # _____<br>Pest/PCB MS/MSD Required? Y/N Sample # _____ | Additional Sampler Signatures<br>_____ | Chain of Custody Seal Number(s)<br>_____ |
|-----------------------------------|---------------------|--|--|--|

PR provides 7-day data turnaround in addition to preliminary results. Requests for preliminary results will increase analytical costs.

**Chain of Custody Record**

|                              |             |   |                              |   |                            |
|------------------------------|-------------|---|------------------------------|---|----------------------------|
| Relinquished by: (Signature) | Date / Time | Received by: (Signature)                            | Relinquished by: (Signature) | Date / Time                                 | Received by: (Signature)   |
| Relinquished by: (Signature) | Date / Time | Received by: (Signature)                            | Relinquished by: (Signature) | Date / Time                                 | Received by: (Signature)   |
| Relinquished by: (Signature) | Date / Time | Received for Laboratory by: (Signature) Carlos Ruiz | Date / Time                  | Remarks: Is custody seal intact? (Y/N) none | Case: 2798E<br>SDG: E00FPL |

Distribution Blue - Region Copy  
White - Lab Copy for Return to SMO  
Pink - SMO Copy  
Yellow - Lab Copy for Return to Region

See Reverse for Additional Standard Instructions  
\*\*See Reverse for Purpose Code Definitions  
CLASS 99 002

391537



United States Environmental Protection Agency  
Contract Laboratory Program

**Organic Traffic Report  
& Chain of Custody Record**  
(For Organic CLP Analysis)

SDG No.

Case No.

27986

|   |  |                   |              |                 |         |                                |               |
|---|--|-------------------|--------------|-----------------|---------|--------------------------------|---------------|
| <b>1. Matrix</b><br>(Enter in Column A)<br><br>1. Surface Water<br>2. Ground Water<br>3. Leachate<br>4. Field QC<br>5. Soil/Sediment<br>6. PE-water<br>7. PE-soil<br>8. Other (specify in Column A) | <b>2. Preservative</b><br>(Enter in Column D)<br><br>1. HCl<br>2. HNO3<br>3. NaHSO4<br>4. H2SO4<br>5. Ice only<br>6. CH3OH<br>7. Other (specify in Column D)<br>N. Not Preserved | 3. Region No.     | Sampling Co. | 5. Date Shipped | Carrier | 7. Date Received--Received by: |               |
|   |  | Sampler (Name)    |              | Airbill Number  |         | Laboratory Contract No.        | Unit Price    |
|   |  | Sampler Signature |              | 6. Ship To:     |         | 8. Transfer to:                | Date Received |
|   |  | 4. Purpose**      |              | ATTN:           |         | Received by: |  | Contract Number | Price |

| CLP Sample Numbers (from labels) | A Matrix (from Box 1) Other | B Conc. Low Med | C Sample Type Comp/Grab | D Preservative (from Box 2) Other | E RAS Analysis  |         |                 |         |                 |         | F Regional Specific Tracking Number or Tag Numbers | G Station Location Identifier | H Mo/Day/Year/Time Sample Collection | I Corresponding CLP Inorganic Sample No. | J Sampler Initials | K Sample Condition |
|----------------------------------|-----------------------------|-----------------|-------------------------|-----------------------------------|-----------------|---------|-----------------|---------|-----------------|---------|--|-------------------------------|--------------------------------------|--|--------------------|--------------------|
|                                  |                             |                 |                         |                                   | TA (circle one) |         | TA (circle one) |         | TA (circle one) |         |  |                               |                                      |  |                    |                    |
|                                  |                             |                 |                         |                                   | PR              | 7 14 21 | PR              | 7 14 21 | PR              | 7 14 21 |  |                               |                                      |  |                    |                    |
| 27986                            |                             | LL              | Grab                    | 5                                 |                 |         |                 |         |                 |         |  |                               | NA                                   | J  |                    |                    |
| 27987                            |                             | LL              | Grab                    | 1                                 |                 |         |                 |         |                 |         |  |                               | NA                                   | J  |                    |                    |
| 27988                            |                             | LL              | Grab                    | 5                                 |                 |         |                 |         |                 |         |  |                               | NA                                   | J  |                    |                    |

|                                   |             |                                |           |                               |                                 |
|-----------------------------------|-------------|--------------------------------|-----------|-------------------------------|---------------------------------|
| Shipment for Case complete? (Y/N) | Page 2 of 2 | VOA MS/MSD Required? Y(N)      | Sample #: | Additional Sampler Signatures | Chain of Custody Seal Number(s) |
|                                   |             | BNA MS/MSD Required? Y(N)      | Sample #: | Richard G. ...                | 27986, 27987, 27988             |
|                                   |             | Pest/PCB MS/MSD Required? Y(N) | Sample #: |                               |                                 |

R provides 7-day data turnaround in addition to preliminary results. Requests for preliminary results will increase analytical costs.

**Chain of Custody Record**

|                              |             |   |                              |   |                            |
|------------------------------|-------------|---|------------------------------|---|----------------------------|
| Relinquished by: (Signature) | Date / Time | Received by: (Signature)                | Relinquished by: (Signature) | Date / Time                                 | Received by: (Signature)   |
| Relinquished by: (Signature) | Date / Time | Received by: (Signature)                | Relinquished by: (Signature) | Date / Time                                 | Received by: (Signature)   |
| Relinquished by: (Signature) | Date / Time | Received for Laboratory by: (Signature) | Date / Time                  | Remarks: Is custody seal intact? (Y/N) none | Case: 27986<br>SDG: E00FPL |



United States Environmental Protection Agency  
Contract Laboratory Program

**Organic Traffic Report**  
**Chain of Custody Record**  
(For Organic CLP Analysis)

SDG No.

Case No.

|   |  |  |   |  |                         |   |                              |  |
|---|--|--|---|--|-------------------------|---|------------------------------|--|
| <b>1. Matrix</b><br>(Enter in Column A)<br><br>1. Surface Water<br>2. Ground Water<br>3. Leachate<br>4. Field QC<br>5. Soil/Sediment<br>6. PE-water<br>7. PE-soil<br>8. Other (specify in Column A) | <b>2. Preservative</b><br>(Enter in Column D)<br><br>1. HCl<br>2. HNO3<br>3. NaHSO4<br>4. H2SO4<br>5. Ice only<br>6. CH3OH<br>7. Other (specify in Column D)<br>N. Not Preserved | <b>3. Region No.</b><br>5                        | <b>Sampling Co.</b><br><i>[Handwritten]</i> | <b>5. Date Shipped</b><br>5/1/00   | <b>Carrier</b><br>FedEx | <b>7. Date Received--Received by:</b><br>5-5-00 <i>Carlton Pinn</i> |                              |  |
|   |  | <b>Sampler (Name)</b><br><i>[Handwritten]</i>    |   | <b>Airbill Number</b><br>8150247405373   |                         | <b>Laboratory Contract No.</b><br>68-D7-0004                        | <b>Unit Price</b><br>\$25.00 |  |
|   |  | <b>Sampler Signature</b><br><i>[Handwritten]</i> |   | <b>6. Ship To:</b><br>PDP Analytical Services<br>1650 University Circle, Suite<br>110, Westlands, TX 77380 |                         | <b>8. Transfer to:</b><br>Date Received                             |                              | <b>Received by:</b><br>Contract Number Price |

| CLP Sample Numbers (from labels) | A Matrix (from Box 1) Other | B Conc Low Med | C Sample Type Comp/Grab | D Preservative (from Box 2) Other | E RAS Analysis  |                 |                 | F Regional Specific Tracking Number or Tag Numbers | G Station Location Identifier | H Mo/Day/Year/Time Sample Collection | I Corresponding CLP Inorganic Sample No. | J Sampler Initials | K Sample Condition |
|----------------------------------|-----------------------------|----------------|-------------------------|-----------------------------------|-----------------|-----------------|-----------------|--|-------------------------------|--------------------------------------|--|--------------------|--------------------|
|                                  |                             |                |                         |                                   | TA (circle one) | TA (circle one) | TA (circle one) |  |                               |                                      |  |                    |                    |
|                                  |                             |                |                         |                                   | PR 7 14 21      | PR 7 14 21      | PR 7 14 21      |  |                               |                                      |  |                    |                    |
| EC-11                            | 2                           | LL             | 1                       | 1                                 | X               |                 |                 | 5000125-442  | WT11C                         | 5/1/00/1000                          | NA                                       | J                  |                    |
| EC-12                            | 2                           | LL             | 1                       | 5                                 |                 | X               |                 | 5000125-442  | WT11C                         | 5/1/00/1000                          | NA                                       | J                  |                    |
| EC-13                            | 2                           | LL             | 1                       | 1                                 | X               |                 |                 | 5000125-442  | WT11A                         | 5/1/00/1000                          | NA                                       | J                  |                    |
| EC-14                            | 2                           | LL             | 1                       | 1                                 | X               |                 |                 | 5000125-442  | WT11A                         | 5/1/00/1000                          | NA                                       | J                  |                    |
| EC-15                            | 2                           | LL             | 1                       | 1                                 | X               |                 |                 | 5000125-442  | WT11A                         | 5/1/00/1000                          | NA                                       | J                  |                    |
| EC-16                            | 2                           | LL             | 1                       | 1                                 | X               |                 |                 | 5000125-442  | WT11A                         | 5/1/00/1000                          | NA                                       | J                  |                    |
| EC-17                            | 2                           | LL             | 1                       | 1                                 | X               |                 |                 | 5000125-442  | WT11A                         | 5/1/00/1000                          | NA                                       | J                  |                    |
| EC-18                            | 2                           | LL             | 1                       | 1                                 | X               |                 |                 | 5000125-442  | WT11A                         | 5/1/00/1000                          | NA                                       | J                  |                    |
| EC-19                            | 2                           | LL             | 1                       | 1                                 | X               |                 |                 | 5000125-442  | WT11A                         | 5/1/00/1000                          | NA                                       | J                  |                    |
| EC-20                            | 2                           | LL             | 1                       | 1                                 | X               |                 |                 | 5000125-442  | WT11A                         | 5/1/00/1000                          | NA                                       | J                  |                    |

|  |                    |   |  |  |
|--|--------------------|---|--|--|
| <b>Shipment for Case Complete?</b> (Y/N) | <b>Page</b> 1 of 2 | <b>VOA MS/MSD Required?</b> Y/N Sample #      | <b>Additional Sampler Signatures</b><br><i>[Handwritten]</i> | <b>Chain of Custody Seal Number(s)</b><br>21901, 11122 |
|  |                    | <b>BNA MS/MSD Required?</b> Y/N Sample #      |  |  |
|  |                    | <b>Pest/PCB MS/MSD Required?</b> Y/N Sample # |  |  |

\*R provides 7-day data turnaround in addition to preliminary results. Requests for preliminary results will increase analytical costs.

**Chain of Custody Record**

|                              |             |   |                              |   |                           |
|------------------------------|-------------|---|------------------------------|---|---------------------------|
| Relinquished by: (Signature) | Date / Time | Received by: (Signature)                | Relinquished by: (Signature) | Date / Time                                 | Received by (Signature)   |
| Relinquished by: (Signature) | Date / Time | Received by: (Signature)                | Relinquished by: (Signature) | Date / Time                                 | Received by (Signature)   |
| Relinquished by: (Signature) | Date / Time | Received for Laboratory by: (Signature) | Date / Time                  | Remarks: Is custody seal intact? (Y/N) none | Case: 27986<br>SDG: E00FL |

Distribution: Blue - Region Copy, White - Lab Copy for Return to SMO, Pink - SMO Copy, Yellow - Lab Copy for Return to Region

See Reverse for Additional Standard Instructions  
\*\*See Reverse for Purpose Code Definitions  
CLASS 99 002

201520



United States Environmental Protection Agency  
Contract Laboratory Program

**Organic Traffic Report  
& Chain of Custody Record**  
(For Organic CLP Analysis)

SDG No.

Case No.

|  |  |   |                         |                               |                    |  |  |
|--|--|---|-------------------------|-------------------------------|--------------------|--|--|
| <b>Matrix</b><br>(Enter in Column A)<br><br>1. Surface Water<br>2. Ground Water<br>3. Leachate<br>4. Field QC<br>5. Soil/Sediment<br>6. PE-water<br>7. PE-soil<br>8. Other (specify in Column A) | <b>2. Preservative</b><br>(Enter in Column D)<br><br>1. HCl<br>2. HNO3<br>3. NaHSO4<br>4. H2SO4<br>5. Ice only<br>6. CH3OH<br>7. Other (specify in Column D)<br>N. Not Preserved | 3. Region No. <u>5</u>  | Sampling Co. <u>...</u> | 5. Date Shipped <u>2/2/00</u> | Carrier <u>...</u> | 7. Date Received--Received by:<br><u>5-5-00 Carol Pinn</u> |  |
|  |  | Sampler (Name)<br><u>...</u>  |                         | Airbill Number<br><u>...</u>  |                    | Laboratory Contract No.<br><u>68-07-0004</u>               | Unit Price<br><u>525<sup>xx</sup>.00</u> |
|  |  | Sampler Signature<br><u>...</u>   |                         | 6. Ship To:<br><u>...</u>     |                    | 8. Transfer to:  | Date Received                            |
|  |  | 4. Purpose**<br>Lead <input checked="" type="checkbox"/> SF<br><input type="checkbox"/> PRP<br><input type="checkbox"/> ST<br><input type="checkbox"/> FED<br><input type="checkbox"/> BZ<br>Early Action <input type="checkbox"/> IA<br><input type="checkbox"/> PA<br><input type="checkbox"/> REM<br><input type="checkbox"/> RI<br><input type="checkbox"/> SI<br><input type="checkbox"/> ESI<br>Long Term Action <input type="checkbox"/> RIFS<br><input checked="" type="checkbox"/> RD<br><input type="checkbox"/> RA<br><input type="checkbox"/> O&M |                         | ATTN: <u>...</u>              |                    | Received by:   |  |
|  |  |   |                         | Contract Number               |                    | Price  |  |

| CLP Sample Numbers (from labels) | A Matrix (from Box 1) Other | B Conc. Low Med | C Sample Type Comp./Grab | D Preservative (from Box 2) Other | E RAS Analysis  |                 |                 | F Regional Specific Tracking Number or Tag Numbers | G Station Location Identifier | H Mo/Day/Year/Time Sample Collection | I Corresponding CLP Inorganic Sample No. | J Sampler Initials | K Sample Condition |
|----------------------------------|-----------------------------|-----------------|--------------------------|-----------------------------------|-----------------|-----------------|-----------------|--|-------------------------------|--------------------------------------|--|--------------------|--------------------|
|                                  |                             |                 |                          |                                   | TA (circle one) | TA (circle one) | TA (circle one) |  |                               |                                      |  |                    |                    |
|                                  |                             |                 |                          |                                   | PR* 7 14 21     | PR* 7 14 21     | PR* 7 14 21     |  |                               |                                      |  |                    |                    |
| ...                              | 2                           | LL              | ...                      | 1                                 | X               | -               | -               | ...  | ...                           | ...                                  | ...                                      | ...                | ...                |
| ...                              | 2                           | LL              | ...                      | 5                                 | -               | X               | -               | ...  | ...                           | ...                                  | ...                                      | ...                | ...                |
| ...                              | 2                           | LL              | ...                      | 1                                 | X               | -               | -               | ...  | ...                           | ...                                  | ...                                      | ...                | ...                |
| ...                              | 2                           | LL              | ...                      | 5                                 | -               | X               | -               | ...  | ...                           | ...                                  | ...                                      | ...                | ...                |
| ...                              | 2                           | LL              | ...                      | 1                                 | X               | -               | -               | ...  | ...                           | ...                                  | ...                                      | ...                | ...                |
| ...                              | 2                           | LL              | ...                      | 5                                 | -               | X               | -               | ...  | ...                           | ...                                  | ...                                      | ...                | ...                |
| ...                              | 2                           | LL              | ...                      | 1                                 | X               | -               | -               | ...  | ...                           | ...                                  | ...                                      | ...                | ...                |
| ...                              | 2                           | LL              | ...                      | 5                                 | -               | X               | -               | ...  | ...                           | ...                                  | ...                                      | ...                | ...                |
| ...                              | 2                           | LL              | ...                      | 1                                 | X               | -               | -               | ...  | ...                           | ...                                  | ...                                      | ...                | ...                |

|   |                           |  |   |  |
|---|---------------------------|--|---|--|
| Equipment for Case complete? (Y/N) <u>Y</u> | Page <u>1</u> of <u>2</u> | VOA MS/MSD Required? <u>Y/N</u> Sample #:      | Additional Sampler Signatures<br><u>...</u> | Chain of Custody Seal Number(s)<br><u>21123, 11924</u> |
|   |                           | BNA MS/MSD Required? <u>Y/N</u> Sample #:      |   |  |
|   |                           | Pest/PCB MS/MSD Required? <u>Y/N</u> Sample #: |   |  |

Lab provides 7-day data turnaround in addition to preliminary results. Requests for preliminary results will increase analytical costs.

**Chain of Custody Record**

|  |                              |   |                                   |  |                          |
|--|------------------------------|---|-----------------------------------|--|--------------------------|
| Relinquished by: (Signature)<br><u>...</u> | Date / Time<br><u>7/4/00</u> | Received by: (Signature)                      | Relinquished by: (Signature)      | Date / Time  | Received by: (Signature) |
| Relinquished by: (Signature)               | Date / Time                  | Received by: (Signature)                      | Relinquished by: (Signature)      | Date / Time  | Received by: (Signature) |
| Relinquished by: (Signature)               | Date / Time                  | Received by: (Signature)<br><u>Carol Pinn</u> | Date / Time<br><u>5-5-00 9:05</u> | Remarks: Is custody seal intact? <u>Y/N</u> none Case: <u>27986</u><br>SDG: <u>E00FL</u> |                          |



United States Environmental Protection Agency  
Contract Laboratory Program

**Organic Traffic Repo  
& Chain of Custody Rec**  
(For Organic CLP Analysis)

SDG No.

Case No.

27986

|   |                                      |  |              |  |         |  |                      |
|---|--------------------------------------|--|--------------|--|---------|--|----------------------|
| 1. Matrix<br><i>(Matrix A)</i>  | 2. Preservative<br><i>(Column D)</i> | 3. Region No   | Sampling Co. | 5. Date Shipped  | Carrier | 7. Date Received--Received by:<br>5-5-00 <i>Carol Furr</i> |                      |
|   |                                      | Sampler (Name)<br><i>E. Carrig</i>   |              | Airbill Number<br>8180-2740-5543   |         | Laboratory Contract No<br>68-D7-0004                       | Unit Price<br>525.00 |
|   |                                      | Sampler Signature<br><i>[Signature]</i>  |              | 6. Ship To:<br><i>POF Analytical Services<br/>1680 Lakeport Circle South<br/>The Woodlands, TX 77380</i>                               |         | 8. Transfer to:<br>Date Received                           |                      |
| 4. Purpose**  |                                      | Early Action   |              | Long Term Action   |         | Received by:   |                      |
| <input type="checkbox"/> SF<br><input type="checkbox"/> PRP<br><input type="checkbox"/> ST<br><input type="checkbox"/> FED<br><input type="checkbox"/> BZ |                                      | <input type="checkbox"/> IA<br><input type="checkbox"/> PA<br><input type="checkbox"/> REM<br><input type="checkbox"/> RI<br><input type="checkbox"/> SI<br><input type="checkbox"/> ESI |              | <input checked="" type="checkbox"/> RIFS<br><input type="checkbox"/> RD<br><input type="checkbox"/> RA<br><input type="checkbox"/> O&M |         | Contract Number  | Price                |

| CLP Sample Numbers (from labels) | A Matrix (from Box 1) Other | B Conc Low Med | C Sample Type Comp / Grab | D Preservative (from Box 2) Other | E RAS Analysis                |                               |                             | F Regional Specific Tracking Number or Tag Numbers | G Station Location Identifier | H Mo/Day/Year/Time Sample Collection | I Corresponding CLP Inorganic Sample No. | J Sampler Initials | K Sample Condition |
|----------------------------------|-----------------------------|----------------|---------------------------|-----------------------------------|-------------------------------|-------------------------------|-----------------------------|--|-------------------------------|--------------------------------------|--|--------------------|--------------------|
|                                  |                             |                |                           |                                   | TA (circle one) PR* 7 (14) 21 | TA (circle one) PR* 7 (14) 21 | TA (circle one) PR* 7 14 21 |  |                               |                                      |  |                    |                    |
|                                  |                             |                |                           |                                   | VOA                           | BNA                           | Pest/PCB                    |  |                               |                                      |  |                    |                    |
| 1115                             | 2                           | LL             | Grab                      | 5                                 | --                            | 2                             | --                          | 500-8421-422                                       | 05/11/05                      | 5/3/05/14:5                          | N/A                                      |                    |                    |

|                                   |           |                               |           |                               |                                 |
|-----------------------------------|-----------|-------------------------------|-----------|-------------------------------|---------------------------------|
| Shipment for Case complete? (Y/N) | Page of 2 | VOA MS/MSD Required? Y/N      | Sample #: | Additional Sampler Signatures | Chain of Custody Seal Number(s) |
|                                   |           | BNA MS/MSD Required? Y/N      | Sample #: | <i>[Signature]</i>            | 27986, 1115                     |
|                                   |           | Pest/PCB MS/MSD Required? Y/N | Sample #: |                               |                                 |

R provides 7-day data turnaround in addition to preliminary results. Requests for preliminary results will increase analytical costs.

**Chain of Custody Record**

|                              |             |   |                              |   |                           |
|------------------------------|-------------|---|------------------------------|---|---------------------------|
| Relinquished by: (Signature) | Date / Time | Received by: (Signature)                                  | Relinquished by: (Signature) | Date / Time   | Received by: (Signature)  |
| Relinquished by: (Signature) | Date / Time | Received by: (Signature)                                  | Relinquished by: (Signature) | Date / Time   | Received by: (Signature)  |
| Relinquished by: (Signature) | Date / Time | Received for Laboratory by: (Signature) <i>Carol Furr</i> | Date / Time                  | Remarks: Is custody seal intact? <input checked="" type="checkbox"/> Y/N/none | Case: 27986<br>SDG: E00FL |

Blue - Region Copy  
White - Lab Copy for Return to SMO  
Pink - SMO Copy  
Yellow - Lab Copy for Return to Region

See Reverse for Additional Standard Instructions  
\*\*See Reverse for Purpose Code Definitions

201550

CLP Sample Numbers (from labels)  
 Matrix (from Box 1)  
 Other  
 Low Med  
 Comp/Grab  
 Other  
 VOA  
 BNA  
 PCB

**2. Preservative**

1. HCl
2. HNO3
3. NaHSO4
4. H2SO4
5. Ice only
6. CH3OH
7. Other (specify in Column D)
- N. Not Preserved

3. Region No. 5 Sampling Co. Woodlands 5. Date Shipped 7/14/95 Carrier DEX

7. Date Received--Received by: 5-5-00 Carol River

Sampler (Name) Janie E. Curry Airbill Number 318029405521 Laboratory Contract No. 68-D7-0004 Unit Price 525 \$

Sampler Signature Janie E. Curry 6. Ship To: DDP Analytical Services 8. Transfer to: DDP Analytical Services Date Received

4. Purpose\*\*  
 SF  IA  Long-Term Action  
 ST  PA  RIFS  
 PRP  REM  RD  
 FED  RI  RA  
 BZ  SI  O&M  
 ES1

Received by: DDP Analytical Services  
1130 Lakefront Circle  
Suite 13  
The Woodlands, TX 77380  
 ATTN: Dean Sundquist

Contract Number 68-D7-0004 Price 525 \$

| CLP Sample Numbers (from labels) | A Matrix (from Box 1)<br>Other | B Conc.<br>Low Med | C Sample Type:<br>Comp/Grab | D Preservative (from Box 2)<br>Other | E RAS Analysis  |                 |                 | F Regional Specific Tracking Number or Tag Numbers | G Station Location Identifier | H Mo/Day/Year/Time Sample Collection | I Corresponding CLP Inorganic Sample No. | J Sampler Initials | K Sample Condition |
|----------------------------------|--------------------------------|--------------------|-----------------------------|--------------------------------------|-----------------|-----------------|-----------------|--|-------------------------------|--------------------------------------|--|--------------------|--------------------|
|                                  |                                |                    |                             |                                      | TA (circle one) | TA (circle one) | TA (circle one) |  |                               |                                      |  |                    |                    |
|                                  |                                |                    |                             |                                      | PR* 7 14 21     | PR* 7 (14) 21   | PR* 7 14 21     |  |                               |                                      |  |                    |                    |
|                                  |                                |                    |                             |                                      | VOA             | BNA             | Pest/PCB        |  |                               |                                      |  |                    |                    |
| <u>CE/FPI</u>                    | <u>2</u>                       | <u>LL</u>          | <u>Grab</u>                 | <u>5</u>                             | <u>--</u>       | <u>x</u>        | <u>-</u>        | <u>5-048580-531</u>                                | <u>WT114A</u>                 | <u>7/13/01 1820</u>                  | <u>NA</u>                                | <u>J</u>           |                    |
| <u>- AKA NO MORE -</u>           |                                |                    |                             |                                      |                 |                 |                 |  |                               |                                      |  |                    |                    |
| <u>[Signature]</u>               |                                |                    |                             |                                      |                 |                 |                 |  |                               |                                      |  |                    |                    |

Shipment for Case Complete?  (Y/N)

Page 2 of 2

VOA MS/MSD Required?  Y/N Sample #:

BNA MS/MSD Required?  Y/N Sample #:

Pest/PCB MS/MSD Required?  Y/N Sample #:

Additional Sampler Signatures: [Signature]

Chain of Custody Seal Number(s): 21723, 21724

PR provides 7-day data turnaround in addition to preliminary results. Requests for preliminary results will increase analytical costs.

### Chain of Custody Record

|   |                            |  |                              |   |   |
|---|----------------------------|--|------------------------------|---|---|
| Relinquished by: (Signature) <u>[Signature]</u> | Date / Time <u>7/14/95</u> | Received by: (Signature)                                   | Relinquished by: (Signature) | Date / Time   | Received by: (Signature)                |
| Relinquished by: (Signature)                    | Date / Time                | Received by: (Signature)                                   | Relinquished by: (Signature) | Date / Time   | Received by: (Signature)                |
| Relinquished by: (Signature)                    | Date / Time                | Received for Laboratory by: (Signature) <u>Carol River</u> | Date / Time <u>5-5-00</u>    | Remarks: Is custody seal intact? <input checked="" type="checkbox"/> Y/N none | <u>Case: 27986</u><br><u>SDG: E00FL</u> |

2LCA  
 LOW CONC. WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: E00FL

|    | EPA<br>SAMPLE NO. | BFB<br>%REC # | OTHER | TOT<br>OUT |
|----|-------------------|---------------|-------|------------|
| 01 | VBLK65            | 89            |       | 0          |
| 02 | VLCS65            | 90            |       | 0          |
| 03 | E00FF             | 88            |       | 0          |
| 04 | E00FL             | 91            |       | 0          |
| 05 | E00FG             | 91            |       | 0          |
| 06 | VBLK66            | 90            |       | 0          |
| 07 | VLCS66            | 80            |       | 0          |
| 08 | E00FH             | 91            |       | 0          |
| 09 | E00FJ             | 91            |       | 0          |
| 10 | E00FK             | 92            |       | 0          |
| 11 | E00F4             | 91            |       | 0          |
| 12 | VBLK02            | 94            |       | 0          |
| 13 | VLCS02            | 96            |       | 0          |
| 14 | E00F5             | 99            |       | 0          |
| 15 | E00F6             | 95            |       | 0          |
| 16 | ECFN2             | 100           |       | 0          |
| 17 | ECFN3             | 94            |       | 0          |
| 18 | ECFN4             | 91            |       | 0          |
| 19 | ECFN5             | 106           |       | 0          |
| 20 | ECFN6             | 97            |       | 0          |
| 21 | VBLK03            | 98            |       | 0          |
| 22 | VLCS03            | 94            |       | 0          |
| 23 | ECFN8             | 92            |       | 0          |
| 24 | ECFN9             | 94            |       | 0          |
| 25 | E01TP             | 96            |       | 0          |
| 26 | E01TQ             | 92            |       | 0          |
| 27 | ECFP1             | 86            |       | 0          |
| 28 | VHBLK01           | 94            |       | 0          |
| 29 |                   |               |       |            |
| 30 |                   |               |       |            |

QC LIMITS  
 %REC

BFB = Bromofluorobenzene (80-120)

# Column to be used to flag recovery values

\* Values outside of contract required QC limits

3LCA  
 LOW CONC. WATER VOLATILE LAB CONTROL SAMPLE RECOVERY

EPA SAMPLE NO.

VLCS65

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: E00FL

Lab Sample ID: FVLCS069

LCS Lot No.: 60

Lab File ID: F1143

Date Analyzed: 05/05/00

Purge Volume: 20.0 (mL)

Dilution Factor: 1.0

LCS Aliquot: 10.0 (uL)

| COMPOUND                | AMOUNT<br>ADDED<br>(ng) | AMOUNT<br>RECOVERED<br>(ng) | %REC # | QC<br>LIMITS |
|-------------------------|-------------------------|-----------------------------|--------|--------------|
| Vinyl chloride          | 100                     | 90                          | 90     | 60-140       |
| 1,2-Dichloroethane      | 100                     | 133                         | 133    | 60-140       |
| Carbon tetrachloride    | 100                     | 125                         | 125    | 60-140       |
| 1,2-Dichloropropane     | 100                     | 125                         | 125    | 60-140       |
| Trichloroethene         | 100                     | 121                         | 121    | 60-140       |
| 1,1,2-Trichloroethane   | 100                     | 125                         | 125    | 60-140       |
| Benzene                 | 100                     | 122                         | 122    | 60-140       |
| cis-1,3-Dichloropropene | 100                     | 116                         | 116    | 60-140       |
| Bromoform               | 100                     | 138                         | 138    | 60-140       |
| Tetrachloroethene       | 100                     | 118                         | 118    | 60-140       |
| 1,2-Dibromoethane       | 100                     | 111                         | 111    | 60-140       |
| 1,4-Dichlorobenzene     | 100                     | 120                         | 120    | 60-140       |

# Column to be used to flag LCS recovery with an asterisk.

\* Values outside of QC limits.

LCS Recovery: 0 outside limits out of 12 total.

COMMENTS:

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3LCA  
 LOW CONC. WATER VOLATILE LAB CONTROL SAMPLE RECOVERY

EPA SAMPLE NO.

VLCS66

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: E00FL

Lab Sample ID: FVLCS070

LCS Lot No.: 60

Lab File ID: F1165

Date Analyzed: 05/08/00

Purge Volume: 20.0 (mL)

Dilution Factor: 1.0

LCS Aliquot: 10.0 (uL)

| COMPOUND                | AMOUNT<br>ADDED<br>(ng) | AMOUNT<br>RECOVERED<br>(ng) | %REC # | QC<br>LIMITS |
|-------------------------|-------------------------|-----------------------------|--------|--------------|
| Vinyl chloride          | 100                     | 89                          | 89     | 60-140       |
| 1,2-Dichloroethane      | 100                     | 131                         | 131    | 60-140       |
| Carbon tetrachloride    | 100                     | 121                         | 121    | 60-140       |
| 1,2-Dichloropropane     | 100                     | 122                         | 122    | 60-140       |
| Trichloroethene         | 100                     | 125                         | 125    | 60-140       |
| 1,1,2-Trichloroethane   | 100                     | 119                         | 119    | 60-140       |
| Benzene                 | 100                     | 126                         | 126    | 60-140       |
| cis-1,3-Dichloropropene | 100                     | 130                         | 130    | 60-140       |
| Bromoform               | 100                     | 136                         | 136    | 60-140       |
| Tetrachloroethene       | 100                     | 115                         | 115    | 60-140       |
| 1,2-Dibromoethane       | 100                     | 106                         | 106    | 60-140       |
| 1,4-Dichlorobenzene     | 100                     | 124                         | 124    | 60-140       |

# Column to be used to flag LCS recovery with an asterisk.

\* Values outside of QC limits.

LCS Recovery: 0 outside limits out of 12 total.

COMMENTS: \_\_\_\_\_  
 \_\_\_\_\_

3LCA  
 LOW CONC. WATER VOLATILE LAB CONTROL SAMPLE RECOVERY

EPA SAMPLE NO.

VLCS02

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004

Lab Code: PDP Case No.: 27986 SAS No.: \_\_\_\_\_ SDG No.: E00FL

Lab Sample ID: EVLCS02 LCS Lot No.: 60

Lab File ID: E0866 Date Analyzed: 05/11/00

Purge Volume: 20.0 (mL) Dilution Factor: 1.0

LCS Aliquot: 10.0 (uL)

| COMPOUND                | AMOUNT<br>ADDED<br>(ng) | AMOUNT<br>RECOVERED<br>(ng) | %REC # | QC<br>LIMITS |
|-------------------------|-------------------------|-----------------------------|--------|--------------|
| Vinyl chloride          | 100                     | 94                          | 94     | 60-140       |
| 1,2-Dichloroethane      | 100                     | 105                         | 105    | 60-140       |
| Carbon tetrachloride    | 100                     | 98                          | 98     | 60-140       |
| 1,2-Dichloropropane     | 100                     | 103                         | 103    | 60-140       |
| Trichloroethene         | 100                     | 102                         | 102    | 60-140       |
| 1,1,2-Trichloroethane   | 100                     | 104                         | 104    | 60-140       |
| Benzene                 | 100                     | 102                         | 102    | 60-140       |
| cis-1,3-Dichloropropene | 100                     | 97                          | 97     | 60-140       |
| Bromoform               | 100                     | 105                         | 105    | 60-140       |
| Tetrachloroethene       | 100                     | 98                          | 98     | 60-140       |
| 1,2-Dibromoethane       | 100                     | 103                         | 103    | 60-140       |
| 1,4-Dichlorobenzene     | 100                     | 97                          | 97     | 60-140       |

# Column to be used to flag LCS recovery with an asterisk.

\* Values outside of QC limits.

LCS Recovery: 0 outside limits out of 12 total.

COMMENTS: \_\_\_\_\_

3LCA  
 LOW CONC. WATER VOLATILE LAB CONTROL SAMPLE RECOVERY

EPA SAMPLE NO.

VLCS03

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: E00FL

Lab Sample ID: EVLCS03

LCS Lot No.: 60

Lab File ID: E0883

Date Analyzed: 05/12/00

Purge Volume: 20.0 (mL)

Dilution Factor: 1.0

LCS Aliquot: 10.0 (uL)

| COMPOUND                | AMOUNT<br>ADDED<br>(ng) | AMOUNT<br>RECOVERED<br>(ng) | %REC # | QC<br>LIMITS |
|-------------------------|-------------------------|-----------------------------|--------|--------------|
| Vinyl chloride          | 100                     | 79                          | 79     | 60-140       |
| 1,2-Dichloroethane      | 100                     | 104                         | 104    | 60-140       |
| Carbon tetrachloride    | 100                     | 108                         | 108    | 60-140       |
| 1,2-Dichloropropane     | 100                     | 106                         | 106    | 60-140       |
| Trichloroethene         | 100                     | 103                         | 103    | 60-140       |
| 1,1,2-Trichloroethane   | 100                     | 105                         | 105    | 60-140       |
| Benzene                 | 100                     | 107                         | 107    | 60-140       |
| cis-1,3-Dichloropropene | 100                     | 99                          | 99     | 60-140       |
| Bromoform               | 100                     | 103                         | 103    | 60-140       |
| Tetrachloroethene       | 100                     | 103                         | 103    | 60-140       |
| 1,2-Dibromoethane       | 100                     | 101                         | 101    | 60-140       |
| 1,4-Dichlorobenzene     | 100                     | 100                         | 100    | 60-140       |

# Column to be used to flag LCS recovery with an asterisk.

\* Values outside of QC limits.

LCS Recovery: 0 outside limits out of 12 total.

COMMENTS: \_\_\_\_\_

4LCA  
 LOW CONC. WATER VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK65

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004  
 Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: E00FL  
 Lab Sample ID: FVBLK069      Date Analyzed: 05/05/00  
 Lab File ID: F1142      Time Analyzed: 1702  
 Instrument ID: F-HP5973  
 GC Column: DB-624      ID: 0.53 (mm)      Length: 60 (m)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND LCS:

|    | EPA<br>SAMPLE NO. | LAB<br>SAMPLE ID | LAB<br>FILE ID | TIME<br>ANALYZED |
|----|-------------------|------------------|----------------|------------------|
| 01 | VLCS65            | FVLCS069         | F1143          | 1750             |
| 02 | E00FF             | 6050.003         | F1144          | 1839             |
| 03 | E00FL             | 6050.002         | F1145          | 1928             |
| 04 | E00FG             | 6050.004         | F1146          | 2016             |
| 05 |                   |                  |                |                  |
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COMMENTS: \_\_\_\_\_  
 \_\_\_\_\_

4LCA  
 LOW CONC. WATER VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK66

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: E00FL

Lab Sample ID: FVBLK070

Date Analyzed: 05/08/00

Lab File ID: F1164

Time Analyzed: 1339

Instrument ID: F-HP5973

GC Column: DB-624

ID: 0.53 (mm) Length: 60 (m)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND LCS:

|    | EPA<br>SAMPLE NO. | LAB<br>SAMPLE ID | LAB<br>FILE ID | TIME<br>ANALYZED |
|----|-------------------|------------------|----------------|------------------|
| 01 | VLCS66            | FVLCS070         | F1165          | 1433             |
| 02 | E00FH             | 6050.005         | F1166          | 1520             |
| 03 | E00FJ             | 6050.006         | F1167          | 1608             |
| 04 | E00FK             | 6050.007         | F1168          | 1656             |
| 05 | E00F4             | 6050.008         | F1169          | 1744             |
| 06 |                   |                  |                |                  |
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COMMENTS:

\_\_\_\_\_

COMMENTS:

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | TIME ANALYZED |
|----------------|---------------|-------------|---------------|
| 01             | EVLCGS02      | E0866       | 1156          |
| 02             | E00F5         | E0870       | 1511          |
| 03             | E00F6         | E0871       | 1603          |
| 04             | ECFN2         | E0872       | 1652          |
| 05             | ECFN3         | E0873       | 1743          |
| 06             | ECFN4         | E0874       | 1833          |
| 07             | ECFN5         | E0875       | 1924          |
| 08             | ECFN6         | E0876       | 2013          |
| 09             |               |             |               |
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| 30             |               |             |               |

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND LCS:

GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

Instrument ID: E-HP5972

Lab File ID: E0865

Time Analyzed: 1105

Lab Sample ID: EVBLK02

Date Analyzed: 05/11/00

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_ SDG No.: E00FL

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

VBK02

LOW CONC. WATER VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

4LCA  
 LOW CONC. WATER VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK03

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: E00FL

Lab Sample ID: EVBLK03

Date Analyzed: 05/11/00

Lab File ID: E0881

Time Analyzed: 2333

Instrument ID: E-HP5972

GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND LCS:

|    | EPA<br>SAMPLE NO. | LAB<br>SAMPLE ID | LAB<br>FILE ID | TIME<br>ANALYZED |
|----|-------------------|------------------|----------------|------------------|
| 01 | VLCS03            | EVLCS03          | E0883          | 0113             |
| 02 | ECFN8             | 6066.008         | E0885          | 0252             |
| 03 | ECFN9             | 6066.009         | E0886          | 0341             |
| 04 | E01TP             | 6066.010         | E0887          | 0431             |
| 05 | E01TQ             | 6066.011         | E0888          | 0520             |
| 06 | ECFP1             | 6066.012         | E0889          | 0610             |
| 07 | VHBLK01           | 6050.001         | E0890          | 0659             |
| 08 |                   |                  |                |                  |
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COMMENTS: \_\_\_\_\_

1LCA  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK65

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004

Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: E00FL

Lab Sample ID: FVBLK069      Date Received: \_\_\_\_\_

Lab File ID: F1142      Date Analyzed: 05/05/00

Purge Volume: 20 (mL)      Dilution Factor: 1.0

GC Column: DB-624      ID: 0.53 (mm) Length: 60 (m)

| CAS NO.    | COMPOUND                    | CONCENTRATION<br>(ug/L) | Q |
|------------|-----------------------------|-------------------------|---|
| 74-87-3    | Chloromethane               | 1                       | U |
| 74-83-9    | Bromomethane                | 1                       | U |
| 75-01-4    | Vinyl chloride              | 1                       | U |
| 75-00-3    | Chloroethane                | 1                       | U |
| 75-09-2    | Methylene chloride          | 2                       | U |
| 67-64-1    | Acetone                     | 5                       | U |
| 75-15-0    | Carbon disulfide            | 1                       | U |
| 75-35-4    | 1,1-Dichloroethene          | 1                       | U |
| 75-34-3    | 1,1-Dichloroethane          | 1                       | U |
| 156-59-2   | cis-1,2-Dichloroethene      | 1                       | U |
| 156-60-5   | trans-1,2-Dichloroethene    | 1                       | U |
| 67-66-3    | Chloroform                  | 1                       | U |
| 107-06-2   | 1,2-Dichloroethane          | 1                       | U |
| 78-93-3    | 2-Butanone                  | 5                       | U |
| 74-97-5    | Bromochloromethane          | 1                       | U |
| 71-55-6    | 1,1,1-Trichloroethane       | 1                       | U |
| 56-23-5    | Carbon tetrachloride        | 1                       | U |
| 75-27-4    | Bromodichloromethane        | 1                       | U |
| 78-87-5    | 1,2-Dichloropropane         | 1                       | U |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1                       | U |
| 79-01-6    | Trichloroethene             | 1                       | U |
| 124-48-1   | Dibromochloromethane        | 1                       | U |
| 79-00-5    | 1,1,2-Trichloroethane       | 1                       | U |
| 71-43-2    | Benzene                     | 1                       | U |
| 10061-02-6 | trans-1,3-Dichloropropene   | 1                       | U |
| 75-25-2    | Bromoform                   | 1                       | U |
| 108-10-1   | 4-Methyl-2-pentanone        | 5                       | U |
| 591-78-6   | 2-Hexanone                  | 5                       | U |
| 127-18-4   | Tetrachloroethene           | 1                       | U |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 1                       | U |
| 106-93-4   | 1,2-Dibromoethane           | 1                       | U |
| 108-88-3   | Toluene                     | 1                       | U |
| 108-90-7   | Chlorobenzene               | 1                       | U |
| 100-41-4   | Ethylbenzene                | 1                       | U |
| 100-42-5   | Styrene                     | 1                       | U |
| 1330-20-7  | Xylenes (total)             | 1                       | U |
| 541-73-1   | 1,3-Dichlorobenzene         | 1                       | U |
| 106-46-7   | 1,4-Dichlorobenzene         | 1                       | U |
| 95-50-1    | 1,2-Dichlorobenzene         | 1                       | U |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | 1                       | U |
| 120-82-1   | 1,2,4-Trichlorobenzene      | 1                       | U |

1LCE  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK65

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004

Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: E00FL

Lab Sample ID: FVBLK069      Date Received: \_\_\_\_\_

Lab File ID: F1142      Date Analyzed: 05/05/00

Purge Volume: 20 (mL)      Dilution Factor: 1.0

GC Column: DB-624      ID: 0.53 (mm) Length: 60 (m)

Number TICs found: 0

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC.<br>(ug/L) | Q |
|------------|---------------|----|----------------------|---|
| 1.         |               |    |                      |   |
| 2.         |               |    |                      |   |
| 3.         |               |    |                      |   |
| 4.         |               |    |                      |   |
| 5.         |               |    |                      |   |
| 6.         |               |    |                      |   |
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| 8.         |               |    |                      |   |
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| 18.        |               |    |                      |   |
| 19.        |               |    |                      |   |
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| 23.        |               |    |                      |   |
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| 26.        |               |    |                      |   |
| 27.        |               |    |                      |   |
| 28.        |               |    |                      |   |
| 29.        |               |    |                      |   |
| 30.        |               |    |                      |   |

1LCA  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK66

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: E00FL

Lab Sample ID: FVBLK070

Date Received: \_\_\_\_\_

Lab File ID: F1164

Date Analyzed: 05/08/00

Purge Volume: 20 (mL)

Dilution Factor: 1.0

GC Column: DB-624

ID: 0.53 (mm) Length: 60 (m)

| CAS NO.    | COMPOUND                    | CONCENTRATION<br>(ug/L) | Q |
|------------|-----------------------------|-------------------------|---|
| 74-87-3    | Chloromethane               | 1                       | U |
| 74-83-9    | Bromomethane                | 1                       | U |
| 75-01-4    | Vinyl chloride              | 1                       | U |
| 75-00-3    | Chloroethane                | 1                       | U |
| 75-09-2    | Methylene chloride          | 2                       | U |
| 67-64-1    | Acetone                     | 5                       | U |
| 75-15-0    | Carbon disulfide            | 1                       | U |
| 75-35-4    | 1,1-Dichloroethene          | 1                       | U |
| 75-34-3    | 1,1-Dichloroethane          | 1                       | U |
| 156-59-2   | cis-1,2-Dichloroethene      | 1                       | U |
| 156-60-5   | trans-1,2-Dichloroethene    | 1                       | U |
| 67-66-3    | Chloroform                  | 1                       | U |
| 107-06-2   | 1,2-Dichloroethane          | 1                       | U |
| 78-93-3    | 2-Butanone                  | 5                       | U |
| 74-97-5    | Bromochloromethane          | 1                       | U |
| 71-55-6    | 1,1,1-Trichloroethane       | 1                       | U |
| 56-23-5    | Carbon tetrachloride        | 1                       | U |
| 75-27-4    | Bromodichloromethane        | 1                       | U |
| 78-87-5    | 1,2-Dichloropropane         | 1                       | U |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1                       | U |
| 79-01-6    | Trichloroethene             | 1                       | U |
| 124-48-1   | Dibromochloromethane        | 1                       | U |
| 79-00-5    | 1,1,2-Trichloroethane       | 1                       | U |
| 71-43-2    | Benzene                     | 1                       | U |
| 10061-02-6 | trans-1,3-Dichloropropene   | 1                       | U |
| 75-25-2    | Bromoform                   | 1                       | U |
| 108-10-1   | 4-Methyl-2-pentanone        | 5                       | U |
| 591-78-6   | 2-Hexanone                  | 5                       | U |
| 127-18-4   | Tetrachloroethene           | 1                       | U |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 1                       | U |
| 106-93-4   | 1,2-Dibromoethane           | 1                       | U |
| 108-88-3   | Toluene                     | 1                       | U |
| 108-90-7   | Chlorobenzene               | 1                       | U |
| 100-41-4   | Ethylbenzene                | 1                       | U |
| 100-42-5   | Styrene                     | 1                       | U |
| 1330-20-7  | Xylenes (total)             | 1                       | U |
| 541-73-1   | 1,3-Dichlorobenzene         | 1                       | U |
| 106-46-7   | 1,4-Dichlorobenzene         | 1                       | U |
| 95-50-1    | 1,2-Dichlorobenzene         | 1                       | U |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | 1                       | U |
| 120-82-1   | 1,2,4-Trichlorobenzene      | 1                       | U |

1LCE  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK66

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004

Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: E00FL

Lab Sample ID: FVBLK070      Date Received: \_\_\_\_\_

Lab File ID: F1164      Date Analyzed: 05/08/00

Purge Volume: 20 (mL)      Dilution Factor: 1.0

GC Column: DB-624      ID: 0.53 (mm) Length: 60 (m)

Number TICs found: 0

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC.<br>(ug/L) | Q |
|------------|---------------|----|----------------------|---|
| 1.         |               |    |                      |   |
| 2.         |               |    |                      |   |
| 3.         |               |    |                      |   |
| 4.         |               |    |                      |   |
| 5.         |               |    |                      |   |
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| 16.        |               |    |                      |   |
| 17.        |               |    |                      |   |
| 18.        |               |    |                      |   |
| 19.        |               |    |                      |   |
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| 22.        |               |    |                      |   |
| 23.        |               |    |                      |   |
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| 25.        |               |    |                      |   |
| 26.        |               |    |                      |   |
| 27.        |               |    |                      |   |
| 28.        |               |    |                      |   |
| 29.        |               |    |                      |   |
| 30.        |               |    |                      |   |

1LCA  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK02

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: E00FL

Lab Sample ID: EVBLK02

Date Received: \_\_\_\_\_

Lab File ID: E0865

Date Analyzed: 05/11/00

Purge Volume: 20 (mL)

Dilution Factor: 1.0

GC Column: DB-624

ID: 0.53 (mm) Length: 60 (m)

| CAS NO.    | COMPOUND                    | CONCENTRATION<br>(ug/L) | Q |
|------------|-----------------------------|-------------------------|---|
| 74-87-3    | Chloromethane               | 1                       | U |
| 74-83-9    | Bromomethane                | 1                       | U |
| 75-01-4    | Vinyl chloride              | 1                       | U |
| 75-00-3    | Chloroethane                | 1                       | U |
| 75-09-2    | Methylene chloride          | 2                       | U |
| 67-64-1    | Acetone                     | 5                       | U |
| 75-15-0    | Carbon disulfide            | 1                       | U |
| 75-35-4    | 1,1-Dichloroethene          | 1                       | U |
| 75-34-3    | 1,1-Dichloroethane          | 1                       | U |
| 156-59-2   | cis-1,2-Dichloroethene      | 1                       | U |
| 156-60-5   | trans-1,2-Dichloroethene    | 1                       | U |
| 67-66-3    | Chloroform                  | 1                       | U |
| 107-06-2   | 1,2-Dichloroethane          | 1                       | U |
| 78-93-3    | 2-Butanone                  | 5                       | U |
| 74-97-5    | Bromochloromethane          | 1                       | U |
| 71-55-6    | 1,1,1-Trichloroethane       | 1                       | U |
| 56-23-5    | Carbon tetrachloride        | 1                       | U |
| 75-27-4    | Bromodichloromethane        | 1                       | U |
| 78-87-5    | 1,2-Dichloropropane         | 1                       | U |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1                       | U |
| 79-01-6    | Trichloroethene             | 1                       | U |
| 124-48-1   | Dibromochloromethane        | 1                       | U |
| 79-00-5    | 1,1,2-Trichloroethane       | 1                       | U |
| 71-43-2    | Benzene                     | 1                       | U |
| 10061-02-6 | trans-1,3-Dichloropropene   | 1                       | U |
| 75-25-2    | Bromoform                   | 1                       | U |
| 108-10-1   | 4-Methyl-2-pentanone        | 5                       | U |
| 591-78-6   | 2-Hexanone                  | 5                       | U |
| 127-18-4   | Tetrachloroethene           | 1                       | U |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 1                       | U |
| 106-93-4   | 1,2-Dibromoethane           | 1                       | U |
| 108-88-3   | Toluene                     | 1                       | U |
| 108-90-7   | Chlorobenzene               | 1                       | U |
| 100-41-4   | Ethylbenzene                | 1                       | U |
| 100-42-5   | Styrene                     | 1                       | U |
| 1330-20-7  | Xylenes (total)             | 1                       | U |
| 541-73-1   | 1,3-Dichlorobenzene         | 1                       | U |
| 106-46-7   | 1,4-Dichlorobenzene         | 1                       | U |
| 95-50-1    | 1,2-Dichlorobenzene         | 1                       | U |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | 1                       | U |
| 120-82-1   | 1,2,4-Trichlorobenzene      | 1                       | U |

1LCE  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK02

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004

Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: E00FL

Lab Sample ID: EVBLK02      Date Received: \_\_\_\_\_

Lab File ID: E0865      Date Analyzed: 05/11/00

Purge Volume: 20 (mL)      Dilution Factor: 1.0

GC Column: DB-624      ID: 0.53 (mm) Length: 60 (m)

Number TICs found: 0

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC.<br>(ug/L) | Q |
|------------|---------------|----|----------------------|---|
| 1.         |               |    |                      |   |
| 2.         |               |    |                      |   |
| 3.         |               |    |                      |   |
| 4.         |               |    |                      |   |
| 5.         |               |    |                      |   |
| 6.         |               |    |                      |   |
| 7.         |               |    |                      |   |
| 8.         |               |    |                      |   |
| 9.         |               |    |                      |   |
| 10.        |               |    |                      |   |
| 11.        |               |    |                      |   |
| 12.        |               |    |                      |   |
| 13.        |               |    |                      |   |
| 14.        |               |    |                      |   |
| 15.        |               |    |                      |   |
| 16.        |               |    |                      |   |
| 17.        |               |    |                      |   |
| 18.        |               |    |                      |   |
| 19.        |               |    |                      |   |
| 20.        |               |    |                      |   |
| 21.        |               |    |                      |   |
| 22.        |               |    |                      |   |
| 23.        |               |    |                      |   |
| 24.        |               |    |                      |   |
| 25.        |               |    |                      |   |
| 26.        |               |    |                      |   |
| 27.        |               |    |                      |   |
| 28.        |               |    |                      |   |
| 29.        |               |    |                      |   |
| 30.        |               |    |                      |   |

1LCA  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK03

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: E00FL

Lab Sample ID: EVBLK03

Date Received: \_\_\_\_\_

Lab File ID: E0881

Date Analyzed: 05/11/00

Purge Volume: 20 (mL)

Dilution Factor: 1.0

GC Column: DB-624

ID: 0.53 (mm) Length: 60 (m)

| CAS NO.    | COMPOUND                    | CONCENTRATION<br>(ug/L) | Q |
|------------|-----------------------------|-------------------------|---|
| 74-87-3    | Chloromethane               | 1                       | U |
| 74-83-9    | Bromomethane                | 1                       | U |
| 75-01-4    | Vinyl chloride              | 1                       | U |
| 75-00-3    | Chloroethane                | 1                       | U |
| 75-09-2    | Methylene chloride          | 2                       | U |
| 67-64-1    | Acetone                     | 5                       | U |
| 75-15-0    | Carbon disulfide            | 1                       | U |
| 75-35-4    | 1,1-Dichloroethene          | 1                       | U |
| 75-34-3    | 1,1-Dichloroethane          | 1                       | U |
| 156-59-2   | cis-1,2-Dichloroethene      | 1                       | U |
| 156-60-5   | trans-1,2-Dichloroethene    | 1                       | U |
| 67-66-3    | Chloroform                  | 1                       | U |
| 107-06-2   | 1,2-Dichloroethane          | 1                       | U |
| 78-93-3    | 2-Butanone                  | 5                       | U |
| 74-97-5    | Bromochloromethane          | 1                       | U |
| 71-55-6    | 1,1,1-Trichloroethane       | 1                       | U |
| 56-23-5    | Carbon tetrachloride        | 1                       | U |
| 75-27-4    | Bromodichloromethane        | 1                       | U |
| 78-87-5    | 1,2-Dichloropropane         | 1                       | U |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1                       | U |
| 79-01-6    | Trichloroethene             | 1                       | U |
| 124-48-1   | Dibromochloromethane        | 1                       | U |
| 79-00-5    | 1,1,2-Trichloroethane       | 1                       | U |
| 71-43-2    | Benzene                     | 1                       | U |
| 10061-02-6 | trans-1,3-Dichloropropene   | 1                       | U |
| 75-25-2    | Bromoform                   | 1                       | U |
| 108-10-1   | 4-Methyl-2-pentanone        | 5                       | U |
| 591-78-6   | 2-Hexanone                  | 5                       | U |
| 127-18-4   | Tetrachloroethene           | 1                       | U |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 1                       | U |
| 106-93-4   | 1,2-Dibromoethane           | 1                       | U |
| 108-88-3   | Toluene                     | 1                       | U |
| 108-90-7   | Chlorobenzene               | 1                       | U |
| 100-41-4   | Ethylbenzene                | 1                       | U |
| 100-42-5   | Styrene                     | 1                       | U |
| 1330-20-7  | Xylenes (total)             | 1                       | U |
| 541-73-1   | 1,3-Dichlorobenzene         | 1                       | U |
| 106-46-7   | 1,4-Dichlorobenzene         | 1                       | U |
| 95-50-1    | 1,2-Dichlorobenzene         | 1                       | U |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | 1                       | U |
| 120-82-1   | 1,2,4-Trichlorobenzene      | 1                       | U |

1LCE  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK03

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004

Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: E00FL

Lab Sample ID: EVBLK03      Date Received: \_\_\_\_\_

Lab File ID: E0881      Date Analyzed: 05/11/00

Purge Volume: 20 (mL)      Dilution Factor: 1.0

GC Column: DB-624      ID: 0.53 (mm) Length: 60 (m)

Number TICs found: 0

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC.<br>(ug/L) | Q |
|------------|---------------|----|----------------------|---|
| 1.         |               |    |                      |   |
| 2.         |               |    |                      |   |
| 3.         |               |    |                      |   |
| 4.         |               |    |                      |   |
| 5.         |               |    |                      |   |
| 6.         |               |    |                      |   |
| 7.         |               |    |                      |   |
| 8.         |               |    |                      |   |
| 9.         |               |    |                      |   |
| 10.        |               |    |                      |   |
| 11.        |               |    |                      |   |
| 12.        |               |    |                      |   |
| 13.        |               |    |                      |   |
| 14.        |               |    |                      |   |
| 15.        |               |    |                      |   |
| 16.        |               |    |                      |   |
| 17.        |               |    |                      |   |
| 18.        |               |    |                      |   |
| 19.        |               |    |                      |   |
| 20.        |               |    |                      |   |
| 21.        |               |    |                      |   |
| 22.        |               |    |                      |   |
| 23.        |               |    |                      |   |
| 24.        |               |    |                      |   |
| 25.        |               |    |                      |   |
| 26.        |               |    |                      |   |
| 27.        |               |    |                      |   |
| 28.        |               |    |                      |   |
| 29.        |               |    |                      |   |
| 30.        |               |    |                      |   |

1LCA  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VHBLK01

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: E00FL

Lab Sample ID: 6050.001

Date Received: 05/03/00

Lab File ID: E0890

Date Analyzed: 05/12/00

Purge Volume: 20 (mL)

Dilution Factor: 1.0

GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

| CAS NO.    | COMPOUND                    | CONCENTRATION (ug/L) | Q |
|------------|-----------------------------|----------------------|---|
| 74-87-3    | Chloromethane               | 1                    | U |
| 74-83-9    | Bromomethane                | 1                    | U |
| 75-01-4    | Vinyl chloride              | 1                    | U |
| 75-00-3    | Chloroethane                | 1                    | U |
| 75-09-2    | Methylene chloride          | 2                    | U |
| 67-64-1    | Acetone                     | 5                    | U |
| 75-15-0    | Carbon disulfide            | 1                    | U |
| 75-35-4    | 1,1-Dichloroethene          | 1                    | U |
| 75-34-3    | 1,1-Dichloroethane          | 1                    | U |
| 156-59-2   | cis-1,2-Dichloroethene      | 1                    | U |
| 156-60-5   | trans-1,2-Dichloroethene    | 1                    | U |
| 67-66-3    | Chloroform                  | 1                    | U |
| 107-06-2   | 1,2-Dichloroethane          | 1                    | U |
| 78-93-3    | 2-Butanone                  | 5                    | U |
| 74-97-5    | Bromochloromethane          | 1                    | U |
| 71-55-6    | 1,1,1-Trichloroethane       | 1                    | U |
| 56-23-5    | Carbon tetrachloride        | 1                    | U |
| 75-27-4    | Bromodichloromethane        | 1                    | U |
| 78-87-5    | 1,2-Dichloropropane         | 1                    | U |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1                    | U |
| 79-01-6    | Trichloroethene             | 1                    | U |
| 124-48-1   | Dibromochloromethane        | 1                    | U |
| 79-00-5    | 1,1,2-Trichloroethane       | 1                    | U |
| 71-43-2    | Benzene                     | 1                    | U |
| 10061-02-6 | trans-1,3-Dichloropropene   | 1                    | U |
| 75-25-2    | Bromoform                   | 1                    | U |
| 108-10-1   | 4-Methyl-2-pentanone        | 5                    | U |
| 591-78-6   | 2-Hexanone                  | 5                    | U |
| 127-18-4   | Tetrachloroethene           | 1                    | U |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 1                    | U |
| 106-93-4   | 1,2-Dibromoethane           | 1                    | U |
| 108-88-3   | Toluene                     | 1                    | U |
| 108-90-7   | Chlorobenzene               | 1                    | U |
| 100-41-4   | Ethylbenzene                | 1                    | U |
| 100-42-5   | Styrene                     | 1                    | U |
| 1330-20-7  | Xylenes (total)             | 1                    | U |
| 541-73-1   | 1,3-Dichlorobenzene         | 1                    | U |
| 106-46-7   | 1,4-Dichlorobenzene         | 1                    | U |
| 95-50-1    | 1,2-Dichlorobenzene         | 1                    | U |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | 1                    | U |
| 120-82-1   | 1,2,4-Trichlorobenzene      | 1                    | U |

1LCE  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VHBLK01

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004

Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: E00FL

Lab Sample ID: 6050.001      Date Received: 05/03/00

Lab File ID: E0890      Date Analyzed: 05/12/00

Purge Volume: 20 (mL)      Dilution Factor: 1.0

GC Column: DB-624      ID: 0.53 (mm) Length: 60 (m)

Number TICs found: 0

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC.<br>(ug/L) | Q |
|------------|---------------|----|----------------------|---|
| 1.         |               |    |                      |   |
| 2.         |               |    |                      |   |
| 3.         |               |    |                      |   |
| 4.         |               |    |                      |   |
| 5.         |               |    |                      |   |
| 6.         |               |    |                      |   |
| 7.         |               |    |                      |   |
| 8.         |               |    |                      |   |
| 9.         |               |    |                      |   |
| 10.        |               |    |                      |   |
| 11.        |               |    |                      |   |
| 12.        |               |    |                      |   |
| 13.        |               |    |                      |   |
| 14.        |               |    |                      |   |
| 15.        |               |    |                      |   |
| 16.        |               |    |                      |   |
| 17.        |               |    |                      |   |
| 18.        |               |    |                      |   |
| 19.        |               |    |                      |   |
| 20.        |               |    |                      |   |
| 21.        |               |    |                      |   |
| 22.        |               |    |                      |   |
| 23.        |               |    |                      |   |
| 24.        |               |    |                      |   |
| 25.        |               |    |                      |   |
| 26.        |               |    |                      |   |
| 27.        |               |    |                      |   |
| 28.        |               |    |                      |   |
| 29.        |               |    |                      |   |
| 30.        |               |    |                      |   |

1LCA  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00F4

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: E00FL

Lab Sample ID: 6050.008

Date Received: 05/03/00

Lab File ID: F1169

Date Analyzed: 05/08/00

Purge Volume: 20 (mL)

Dilution Factor: 1.0

GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

| CAS NO.    | COMPOUND                    | CONCENTRATION (ug/L) | Q |
|------------|-----------------------------|----------------------|---|
| 74-87-3    | Chloromethane               | 1                    | U |
| 74-83-9    | Bromomethane                | 1                    | U |
| 75-01-4    | Vinyl chloride              | 1                    | U |
| 75-00-3    | Chloroethane                | 0.6                  | J |
| 75-09-2    | Methylene chloride          | 2                    | U |
| 67-64-1    | Acetone                     | 5                    | U |
| 75-15-0    | Carbon disulfide            | 1                    | U |
| 75-35-4    | 1,1-Dichloroethene          | 1                    | U |
| 75-34-3    | 1,1-Dichloroethane          | 0.9                  | J |
| 156-59-2   | cis-1,2-Dichloroethene      | 1                    | U |
| 156-60-5   | trans-1,2-Dichloroethene    | 1                    | U |
| 67-66-3    | Chloroform                  | 1                    | U |
| 107-06-2   | 1,2-Dichloroethane          | 1                    | U |
| 78-93-3    | 2-Butanone                  | 5                    | U |
| 74-97-5    | Bromochloromethane          | 1                    | U |
| 71-55-6    | 1,1,1-Trichloroethane       | 1                    | U |
| 56-23-5    | Carbon tetrachloride        | 1                    | U |
| 75-27-4    | Bromodichloromethane        | 1                    | U |
| 78-87-5    | 1,2-Dichloropropane         | 1                    | U |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1                    | U |
| 79-01-6    | Trichloroethene             | 0.6                  | J |
| 124-48-1   | Dibromochloromethane        | 1                    | U |
| 79-00-5    | 1,1,2-Trichloroethane       | 1                    | U |
| 71-43-2    | Benzene                     | 1                    | U |
| 10061-02-6 | trans-1,3-Dichloropropene   | 1                    | U |
| 75-25-2    | Bromoform                   | 1                    | U |
| 108-10-1   | 4-Methyl-2-pentanone        | 5                    | U |
| 591-78-6   | 2-Hexanone                  | 5                    | U |
| 127-18-4   | Tetrachloroethene           | 1                    | U |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 1                    | U |
| 106-93-4   | 1,2-Dibromoethane           | 1                    | U |
| 108-88-3   | Toluene                     | 1                    | U |
| 108-90-7   | Chlorobenzene               | 1                    | U |
| 100-41-4   | Ethylbenzene                | 1                    | U |
| 100-42-5   | Styrene                     | 1                    | U |
| 1330-20-7  | Xylenes (total)             | 1                    | U |
| 541-73-1   | 1,3-Dichlorobenzene         | 1                    | U |
| 106-46-7   | 1,4-Dichlorobenzene         | 1                    | U |
| 95-50-1    | 1,2-Dichlorobenzene         | 1                    | U |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | 1                    | U |
| 120-82-1   | 1,2,4-Trichlorobenzene      | 1                    | U |

1LCE  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00F4

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004

Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: E00FL

Lab Sample ID: 6050.008      Date Received: 05/03/00

Lab File ID: F1169      Date Analyzed: 05/08/00

Purge Volume: 20 (mL)      Dilution Factor: 1.0

GC Column: DB-624      ID: 0.53 (mm) Length: 60 (m)

Number TICs found: 2

| CAS NUMBER     | COMPOUND NAME            | RT   | EST. CONC.<br>(ug/L) | Q  |
|----------------|--------------------------|------|----------------------|----|
| 1. 000075-43-4 | Methane, dichlorofluoro- | 5.91 | 40                   | JN |
| 2. 000060-29-7 | Ethyl ether              | 6.82 | 9                    | JN |
| 3.             |                          |      |                      |    |
| 4.             |                          |      |                      |    |
| 5.             |                          |      |                      |    |
| 6.             |                          |      |                      |    |
| 7.             |                          |      |                      |    |
| 8.             |                          |      |                      |    |
| 9.             |                          |      |                      |    |
| 10.            |                          |      |                      |    |
| 11.            |                          |      |                      |    |
| 12.            |                          |      |                      |    |
| 13.            |                          |      |                      |    |
| 14.            |                          |      |                      |    |
| 15.            |                          |      |                      |    |
| 16.            |                          |      |                      |    |
| 17.            |                          |      |                      |    |
| 18.            |                          |      |                      |    |
| 19.            |                          |      |                      |    |
| 20.            |                          |      |                      |    |
| 21.            |                          |      |                      |    |
| 22.            |                          |      |                      |    |
| 23.            |                          |      |                      |    |
| 24.            |                          |      |                      |    |
| 25.            |                          |      |                      |    |
| 26.            |                          |      |                      |    |
| 27.            |                          |      |                      |    |
| 28.            |                          |      |                      |    |
| 29.            |                          |      |                      |    |
| 30.            |                          |      |                      |    |

1LCA  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00F5

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: E00FL

Lab Sample ID: 6066.001

Date Received: 05/05/00

Lab File ID: E0870

Date Analyzed: 05/11/00

Purge Volume: 20 (mL)

Dilution Factor: 1.0

GC Column: DB-624

ID: 0.53 (mm) Length: 60 (m)

| CAS NO.    | COMPOUND                    | CONCENTRATION<br>(ug/L) | Q |
|------------|-----------------------------|-------------------------|---|
| 74-87-3    | Chloromethane               | 1                       | U |
| 74-83-9    | Bromomethane                | 1                       | U |
| 75-01-4    | Vinyl chloride              | 1                       | U |
| 75-00-3    | Chloroethane                | 1                       | U |
| 75-09-2    | Methylene chloride          | 2                       | U |
| 67-64-1    | Acetone                     | 5                       | U |
| 75-15-0    | Carbon disulfide            | 1                       | U |
| 75-35-4    | 1,1-Dichloroethene          | 1                       | U |
| 75-34-3    | 1,1-Dichloroethane          | 1                       | U |
| 156-59-2   | cis-1,2-Dichloroethene      | 1                       | U |
| 156-60-5   | trans-1,2-Dichloroethene    | 1                       | U |
| 67-66-3    | Chloroform                  | 1                       | U |
| 107-06-2   | 1,2-Dichloroethane          | 1                       | U |
| 78-93-3    | 2-Butanone                  | 5                       | U |
| 74-97-5    | Bromochloromethane          | 1                       | U |
| 71-55-6    | 1,1,1-Trichloroethane       | 1                       | U |
| 56-23-5    | Carbon tetrachloride        | 1                       | U |
| 75-27-4    | Bromodichloromethane        | 1                       | U |
| 78-87-5    | 1,2-Dichloropropane         | 1                       | U |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1                       | U |
| 79-01-6    | Trichloroethene             | 1                       | U |
| 124-48-1   | Dibromochloromethane        | 1                       | U |
| 79-00-5    | 1,1,2-Trichloroethane       | 1                       | U |
| 71-43-2    | Benzene                     | 1                       | U |
| 10061-02-6 | trans-1,3-Dichloropropene   | 1                       | U |
| 75-25-2    | Bromoform                   | 1                       | U |
| 108-10-1   | 4-Methyl-2-pentanone        | 5                       | U |
| 591-78-6   | 2-Hexanone                  | 5                       | U |
| 127-18-4   | Tetrachloroethene           | 1                       | U |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 1                       | U |
| 106-93-4   | 1,2-Dibromoethane           | 1                       | U |
| 108-88-3   | Toluene                     | 1                       | U |
| 108-90-7   | Chlorobenzene               | 1                       | U |
| 100-41-4   | Ethylbenzene                | 1                       | U |
| 100-42-5   | Styrene                     | 1                       | U |
| 1330-20-7  | Xylenes (total)             | 1                       | U |
| 541-73-1   | 1,3-Dichlorobenzene         | 1                       | U |
| 106-46-7   | 1,4-Dichlorobenzene         | 1                       | U |
| 95-50-1    | 1,2-Dichlorobenzene         | 1                       | U |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | 1                       | U |
| 120-82-1   | 1,2,4-Trichlorobenzene      | 1                       | U |

1LCE  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00F5

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004

Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: E00FL

Lab Sample ID: 6066.001      Date Received: 05/05/00

Lab File ID: E0870      Date Analyzed: 05/11/00

Purge Volume: 20 (mL)      Dilution Factor: 1.0

GC Column: DB-624      ID: 0.53 (mm) Length: 60 (m)

Number TICs found: 0

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC.<br>(ug/L) | Q |
|------------|---------------|----|----------------------|---|
| 1.         |               |    |                      |   |
| 2.         |               |    |                      |   |
| 3.         |               |    |                      |   |
| 4.         |               |    |                      |   |
| 5.         |               |    |                      |   |
| 6.         |               |    |                      |   |
| 7.         |               |    |                      |   |
| 8.         |               |    |                      |   |
| 9.         |               |    |                      |   |
| 10.        |               |    |                      |   |
| 11.        |               |    |                      |   |
| 12.        |               |    |                      |   |
| 13.        |               |    |                      |   |
| 14.        |               |    |                      |   |
| 15.        |               |    |                      |   |
| 16.        |               |    |                      |   |
| 17.        |               |    |                      |   |
| 18.        |               |    |                      |   |
| 19.        |               |    |                      |   |
| 20.        |               |    |                      |   |
| 21.        |               |    |                      |   |
| 22.        |               |    |                      |   |
| 23.        |               |    |                      |   |
| 24.        |               |    |                      |   |
| 25.        |               |    |                      |   |
| 26.        |               |    |                      |   |
| 27.        |               |    |                      |   |
| 28.        |               |    |                      |   |
| 29.        |               |    |                      |   |
| 30.        |               |    |                      |   |

1LCA  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00F6

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: E00FL

Lab Sample ID: 6066.002

Date Received: 05/05/00

Lab File ID: E0871

Date Analyzed: 05/11/00

Purge Volume: 20 (mL)

Dilution Factor: 1.0

GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

| CAS NO.    | COMPOUND                    | CONCENTRATION<br>(ug/L) | Q |
|------------|-----------------------------|-------------------------|---|
| 74-87-3    | Chloromethane               | 1                       | U |
| 74-83-9    | Bromomethane                | 1                       | U |
| 75-01-4    | Vinyl chloride              | 1                       | U |
| 75-00-3    | Chloroethane                | 1                       | U |
| 75-09-2    | Methylene chloride          | 2                       |   |
| 67-64-1    | Acetone                     | 5                       | U |
| 75-15-0    | Carbon disulfide            | 1                       | U |
| 75-35-4    | 1,1-Dichloroethene          | 1                       | U |
| 75-34-3    | 1,1-Dichloroethane          | 1                       | U |
| 156-59-2   | cis-1,2-Dichloroethene      | 1                       | U |
| 156-60-5   | trans-1,2-Dichloroethene    | 1                       | U |
| 67-66-3    | Chloroform                  | 1                       | U |
| 107-06-2   | 1,2-Dichloroethane          | 1                       | U |
| 78-93-3    | 2-Butanone                  | 5                       | U |
| 74-97-5    | Bromochloromethane          | 1                       | U |
| 71-55-6    | 1,1,1-Trichloroethane       | 1                       | U |
| 56-23-5    | Carbon tetrachloride        | 1                       | U |
| 75-27-4    | Bromodichloromethane        | 1                       | U |
| 78-87-5    | 1,2-Dichloropropane         | 1                       | U |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1                       | U |
| 79-01-6    | Trichloroethene             | 1                       | U |
| 124-48-1   | Dibromochloromethane        | 1                       | U |
| 79-00-5    | 1,1,2-Trichloroethane       | 1                       | U |
| 71-43-2    | Benzene                     | 1                       | U |
| 10061-02-6 | trans-1,3-Dichloropropene   | 1                       | U |
| 75-25-2    | Bromoform                   | 1                       | U |
| 108-10-1   | 4-Methyl-2-pentanone        | 5                       | U |
| 591-78-6   | 2-Hexanone                  | 5                       | U |
| 127-18-4   | Tetrachloroethene           | 1                       | U |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 1                       | U |
| 106-93-4   | 1,2-Dibromoethane           | 1                       | U |
| 108-88-3   | Toluene                     | 1                       | U |
| 108-90-7   | Chlorobenzene               | 1                       | U |
| 100-41-4   | Ethylbenzene                | 1                       | U |
| 100-42-5   | Styrene                     | 1                       | U |
| 1330-20-7  | Xylenes (total)             | 1                       | U |
| 541-73-1   | 1,3-Dichlorobenzene         | 1                       | U |
| 106-46-7   | 1,4-Dichlorobenzene         | 1                       | U |
| 95-50-1    | 1,2-Dichlorobenzene         | 1                       | U |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | 1                       | U |
| 120-82-1   | 1,2,4-Trichlorobenzene      | 1                       | U |

1LCE  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00F6

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004

Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: E00FL

Lab Sample ID: 6066.002      Date Received: 05/05/00

Lab File ID: E0871      Date Analyzed: 05/11/00

Purge Volume: 20 (mL)      Dilution Factor: 1.0

GC Column: DB-624      ID: 0.53 (mm) Length: 60 (m)

Number TICs found: 0

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC.<br>(ug/L) | Q |
|------------|---------------|----|----------------------|---|
| 1.         |               |    |                      |   |
| 2.         |               |    |                      |   |
| 3.         |               |    |                      |   |
| 4.         |               |    |                      |   |
| 5.         |               |    |                      |   |
| 6.         |               |    |                      |   |
| 7.         |               |    |                      |   |
| 8.         |               |    |                      |   |
| 9.         |               |    |                      |   |
| 10.        |               |    |                      |   |
| 11.        |               |    |                      |   |
| 12.        |               |    |                      |   |
| 13.        |               |    |                      |   |
| 14.        |               |    |                      |   |
| 15.        |               |    |                      |   |
| 16.        |               |    |                      |   |
| 17.        |               |    |                      |   |
| 18.        |               |    |                      |   |
| 19.        |               |    |                      |   |
| 20.        |               |    |                      |   |
| 21.        |               |    |                      |   |
| 22.        |               |    |                      |   |
| 23.        |               |    |                      |   |
| 24.        |               |    |                      |   |
| 25.        |               |    |                      |   |
| 26.        |               |    |                      |   |
| 27.        |               |    |                      |   |
| 28.        |               |    |                      |   |
| 29.        |               |    |                      |   |
| 30.        |               |    |                      |   |

1LCA  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00FF

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: E00FL

Lab Sample ID: 6050.003

Date Received: 05/03/00

Lab File ID: F1144

Date Analyzed: 05/05/00

Purge Volume: 20 (mL)

Dilution Factor: 1.0

GC Column: DB-624

ID: 0.53 (mm) Length: 60 (m)

| CAS NO.    | COMPOUND                    | CONCENTRATION<br>(ug/L) | Q |
|------------|-----------------------------|-------------------------|---|
| 74-87-3    | Chloromethane               | 1                       | U |
| 74-83-9    | Bromomethane                | 1                       | U |
| 75-01-4    | Vinyl chloride              | 1                       | U |
| 75-00-3    | Chloroethane                | 1                       | U |
| 75-09-2    | Methylene chloride          | 2                       | U |
| 67-64-1    | Acetone                     | 5                       | U |
| 75-15-0    | Carbon disulfide            | 1                       | U |
| 75-35-4    | 1,1-Dichloroethene          | 1                       | U |
| 75-34-3    | 1,1-Dichloroethane          | 1                       | U |
| 156-59-2   | cis-1,2-Dichloroethene      | 0.5                     | J |
| 156-60-5   | trans-1,2-Dichloroethene    | 1                       | U |
| 67-66-3    | Chloroform                  | 1                       | U |
| 107-06-2   | 1,2-Dichloroethane          | 1                       | U |
| 78-93-3    | 2-Butanone                  | 5                       | U |
| 74-97-5    | Bromochloromethane          | 1                       | U |
| 71-55-6    | 1,1,1-Trichloroethane       | 1                       | U |
| 56-23-5    | Carbon tetrachloride        | 1                       | U |
| 75-27-4    | Bromodichloromethane        | 1                       | U |
| 78-87-5    | 1,2-Dichloropropane         | 1                       | U |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1                       | U |
| 79-01-6    | Trichloroethene             | 0.6                     | J |
| 124-48-1   | Dibromochloromethane        | 1                       | U |
| 79-00-5    | 1,1,2-Trichloroethane       | 1                       | U |
| 71-43-2    | Benzene                     | 1                       | U |
| 10061-02-6 | trans-1,3-Dichloropropene   | 1                       | U |
| 75-25-2    | Bromoform                   | 1                       | U |
| 108-10-1   | 4-Methyl-2-pentanone        | 5                       | U |
| 591-78-6   | 2-Hexanone                  | 5                       | U |
| 127-18-4   | Tetrachloroethene           | 0.8                     | J |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 1                       | U |
| 106-93-4   | 1,2-Dibromoethane           | 1                       | U |
| 108-88-3   | Toluene                     | 1                       | U |
| 108-90-7   | Chlorobenzene               | 1                       | U |
| 100-41-4   | Ethylbenzene                | 1                       | U |
| 100-42-5   | Styrene                     | 1                       | U |
| 1330-20-7  | Xylenes (total)             | 1                       | U |
| 541-73-1   | 1,3-Dichlorobenzene         | 1                       | U |
| 106-46-7   | 1,4-Dichlorobenzene         | 1                       | U |
| 95-50-1    | 1,2-Dichlorobenzene         | 1                       | U |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | 1                       | U |
| 120-82-1   | 1,2,4-Trichlorobenzene      | 1                       | U |

1LCE  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00FF

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004

Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: E00FL

Lab Sample ID: 6050.003      Date Received: 05/03/00

Lab File ID: F1144      Date Analyzed: 05/05/00

Purge Volume: 20 (mL)      Dilution Factor: 1.0

GC Column: DB-624      ID: 0.53 (mm) Length: 60 (m)

Number TICs found: 0

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC.<br>(ug/L) | Q |
|------------|---------------|----|----------------------|---|
| 1.         |               |    |                      |   |
| 2.         |               |    |                      |   |
| 3.         |               |    |                      |   |
| 4.         |               |    |                      |   |
| 5.         |               |    |                      |   |
| 6.         |               |    |                      |   |
| 7.         |               |    |                      |   |
| 8.         |               |    |                      |   |
| 9.         |               |    |                      |   |
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| 12.        |               |    |                      |   |
| 13.        |               |    |                      |   |
| 14.        |               |    |                      |   |
| 15.        |               |    |                      |   |
| 16.        |               |    |                      |   |
| 17.        |               |    |                      |   |
| 18.        |               |    |                      |   |
| 19.        |               |    |                      |   |
| 20.        |               |    |                      |   |
| 21.        |               |    |                      |   |
| 22.        |               |    |                      |   |
| 23.        |               |    |                      |   |
| 24.        |               |    |                      |   |
| 25.        |               |    |                      |   |
| 26.        |               |    |                      |   |
| 27.        |               |    |                      |   |
| 28.        |               |    |                      |   |
| 29.        |               |    |                      |   |
| 30.        |               |    |                      |   |

1LCA  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00FG

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: E00FL

Lab Sample ID: 6050.004

Date Received: 05/03/00

Lab File ID: F1146

Date Analyzed: 05/05/00

Purge Volume: 20 (mL)

Dilution Factor: 1.0

GC Column: DB-624

ID: 0.53 (mm) Length: 60 (m)

| CAS NO.    | COMPOUND                    | CONCENTRATION<br>(ug/L) | Q |
|------------|-----------------------------|-------------------------|---|
| 74-87-3    | Chloromethane               | 1                       | U |
| 74-83-9    | Bromomethane                | 1                       | U |
| 75-01-4    | Vinyl chloride              | 1                       | U |
| 75-00-3    | Chloroethane                | 1                       | U |
| 75-09-2    | Methylene chloride          | 2                       | U |
| 67-64-1    | Acetone                     | 5                       | U |
| 75-15-0    | Carbon disulfide            | 1                       | U |
| 75-35-4    | 1,1-Dichloroethene          | 1                       | U |
| 75-34-3    | 1,1-Dichloroethane          | 1                       | U |
| 156-59-2   | cis-1,2-Dichloroethene      | 1                       | U |
| 156-60-5   | trans-1,2-Dichloroethene    | 1                       | U |
| 67-66-3    | Chloroform                  | 1                       | U |
| 107-06-2   | 1,2-Dichloroethane          | 1                       | U |
| 78-93-3    | 2-Butanone                  | 5                       | U |
| 74-97-5    | Bromochloromethane          | 1                       | U |
| 71-55-6    | 1,1,1-Trichloroethane       | 1                       | U |
| 56-23-5    | Carbon tetrachloride        | 1                       | U |
| 75-27-4    | Bromodichloromethane        | 1                       | U |
| 78-87-5    | 1,2-Dichloropropane         | 1                       | U |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1                       | U |
| 79-01-6    | Trichloroethene             | 1                       | U |
| 124-48-1   | Dibromochloromethane        | 1                       | U |
| 79-00-5    | 1,1,2-Trichloroethane       | 1                       | U |
| 71-43-2    | Benzene                     | 1                       | U |
| 10061-02-6 | trans-1,3-Dichloropropene   | 1                       | U |
| 75-25-2    | Bromoform                   | 1                       | U |
| 108-10-1   | 4-Methyl-2-pentanone        | 5                       | U |
| 591-78-6   | 2-Hexanone                  | 5                       | U |
| 127-18-4   | Tetrachloroethene           | 1                       | U |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 1                       | U |
| 106-93-4   | 1,2-Dibromoethane           | 1                       | U |
| 108-88-3   | Toluene                     | 1                       | U |
| 108-90-7   | Chlorobenzene               | 1                       | U |
| 100-41-4   | Ethylbenzene                | 1                       | U |
| 100-42-5   | Styrene                     | 1                       | U |
| 1330-20-7  | Xylenes (total)             | 1                       | U |
| 541-73-1   | 1,3-Dichlorobenzene         | 1                       | U |
| 106-46-7   | 1,4-Dichlorobenzene         | 1                       | U |
| 95-50-1    | 1,2-Dichlorobenzene         | 1                       | U |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | 1                       | U |
| 120-82-1   | 1,2,4-Trichlorobenzene      | 1                       | U |

1LCE  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00FG

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004

Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: E00FL

Lab Sample ID: 6050.004      Date Received: 05/03/00

Lab File ID: F1146      Date Analyzed: 05/05/00

Purge Volume: 20 (mL)      Dilution Factor: 1.0

GC Column: DB-624      ID: 0.53 (mm) Length: 60 (m)

Number TICs found: 0

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC.<br>(ug/L) | Q |
|------------|---------------|----|----------------------|---|
| 1.         |               |    |                      |   |
| 2.         |               |    |                      |   |
| 3.         |               |    |                      |   |
| 4.         |               |    |                      |   |
| 5.         |               |    |                      |   |
| 6.         |               |    |                      |   |
| 7.         |               |    |                      |   |
| 8.         |               |    |                      |   |
| 9.         |               |    |                      |   |
| 10.        |               |    |                      |   |
| 11.        |               |    |                      |   |
| 12.        |               |    |                      |   |
| 13.        |               |    |                      |   |
| 14.        |               |    |                      |   |
| 15.        |               |    |                      |   |
| 16.        |               |    |                      |   |
| 17.        |               |    |                      |   |
| 18.        |               |    |                      |   |
| 19.        |               |    |                      |   |
| 20.        |               |    |                      |   |
| 21.        |               |    |                      |   |
| 22.        |               |    |                      |   |
| 23.        |               |    |                      |   |
| 24.        |               |    |                      |   |
| 25.        |               |    |                      |   |
| 26.        |               |    |                      |   |
| 27.        |               |    |                      |   |
| 28.        |               |    |                      |   |
| 29.        |               |    |                      |   |
| 30.        |               |    |                      |   |

1LCA  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00FH

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: E00FL

Lab Sample ID: 6050.005

Date Received: 05/03/00

Lab File ID: F1166

Date Analyzed: 05/08/00

Purge Volume: 20 (mL)

Dilution Factor: 1.0

GC Column: DB-624

ID: 0.53 (mm) Length: 60 (m)

| CAS NO.    | COMPOUND                    | CONCENTRATION<br>(ug/L) | Q |
|------------|-----------------------------|-------------------------|---|
| 74-87-3    | Chloromethane               | 1                       | U |
| 74-83-9    | Bromomethane                | 1                       | U |
| 75-01-4    | Vinyl chloride              | 1                       | U |
| 75-00-3    | Chloroethane                | 1                       | U |
| 75-09-2    | Methylene chloride          | 2                       | U |
| 67-64-1    | Acetone                     | 5                       | U |
| 75-15-0    | Carbon disulfide            | 1                       | U |
| 75-35-4    | 1,1-Dichloroethene          | 1                       | U |
| 75-34-3    | 1,1-Dichloroethane          | 1                       | U |
| 156-59-2   | cis-1,2-Dichloroethene      | 1                       | U |
| 156-60-5   | trans-1,2-Dichloroethene    | 1                       | U |
| 67-66-3    | Chloroform                  | 1                       | U |
| 107-06-2   | 1,2-Dichloroethane          | 1                       | U |
| 78-93-3    | 2-Butanone                  | 5                       | U |
| 74-97-5    | Bromochloromethane          | 1                       | U |
| 71-55-6    | 1,1,1-Trichloroethane       | 1                       | U |
| 56-23-5    | Carbon tetrachloride        | 1                       | U |
| 75-27-4    | Bromodichloromethane        | 1                       | U |
| 78-87-5    | 1,2-Dichloropropane         | 1                       | U |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1                       | U |
| 79-01-6    | Trichloroethene             | 1                       | U |
| 124-48-1   | Dibromochloromethane        | 1                       | U |
| 79-00-5    | 1,1,2-Trichloroethane       | 1                       | U |
| 71-43-2    | Benzene                     | 1                       | U |
| 10061-02-6 | trans-1,3-Dichloropropene   | 1                       | U |
| 75-25-2    | Bromoform                   | 1                       | U |
| 108-10-1   | 4-Methyl-2-pentanone        | 5                       | U |
| 591-78-6   | 2-Hexanone                  | 5                       | U |
| 127-18-4   | Tetrachloroethene           | 1                       | U |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 1                       | U |
| 106-93-4   | 1,2-Dibromoethane           | 1                       | U |
| 108-88-3   | Toluene                     | 1                       | U |
| 108-90-7   | Chlorobenzene               | 1                       | U |
| 100-41-4   | Ethylbenzene                | 1                       | U |
| 100-42-5   | Styrene                     | 1                       | U |
| 1330-20-7  | Xylenes (total)             | 1                       | U |
| 541-73-1   | 1,3-Dichlorobenzene         | 1                       | U |
| 106-46-7   | 1,4-Dichlorobenzene         | 1                       | U |
| 95-50-1    | 1,2-Dichlorobenzene         | 1                       | U |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | 1                       | U |
| 120-82-1   | 1,2,4-Trichlorobenzene      | 1                       | U |

1LCE  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

|       |
|-------|
| E00FH |
|-------|

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004

Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: E00FL

Lab Sample ID: 6050.005      Date Received: 05/03/00

Lab File ID: F1166      Date Analyzed: 05/08/00

Purge Volume: 20 (mL)      Dilution Factor: 1.0

GC Column: DB-624      ID: 0.53 (mm) Length: 60 (m)

Number TICs found: 1

| CAS NUMBER     | COMPOUND NAME | RT    | EST. CONC.<br>(ug/L) | Q     |
|----------------|---------------|-------|----------------------|-------|
| 1. 000060-29-7 | Ethyl ether   | 6.82  | 4                    | JN    |
| 2. _____       | _____         | _____ | _____                | _____ |
| 3. _____       | _____         | _____ | _____                | _____ |
| 4. _____       | _____         | _____ | _____                | _____ |
| 5. _____       | _____         | _____ | _____                | _____ |
| 6. _____       | _____         | _____ | _____                | _____ |
| 7. _____       | _____         | _____ | _____                | _____ |
| 8. _____       | _____         | _____ | _____                | _____ |
| 9. _____       | _____         | _____ | _____                | _____ |
| 10. _____      | _____         | _____ | _____                | _____ |
| 11. _____      | _____         | _____ | _____                | _____ |
| 12. _____      | _____         | _____ | _____                | _____ |
| 13. _____      | _____         | _____ | _____                | _____ |
| 14. _____      | _____         | _____ | _____                | _____ |
| 15. _____      | _____         | _____ | _____                | _____ |
| 16. _____      | _____         | _____ | _____                | _____ |
| 17. _____      | _____         | _____ | _____                | _____ |
| 18. _____      | _____         | _____ | _____                | _____ |
| 19. _____      | _____         | _____ | _____                | _____ |
| 20. _____      | _____         | _____ | _____                | _____ |
| 21. _____      | _____         | _____ | _____                | _____ |
| 22. _____      | _____         | _____ | _____                | _____ |
| 23. _____      | _____         | _____ | _____                | _____ |
| 24. _____      | _____         | _____ | _____                | _____ |
| 25. _____      | _____         | _____ | _____                | _____ |
| 26. _____      | _____         | _____ | _____                | _____ |
| 27. _____      | _____         | _____ | _____                | _____ |
| 28. _____      | _____         | _____ | _____                | _____ |
| 29. _____      | _____         | _____ | _____                | _____ |
| 30. _____      | _____         | _____ | _____                | _____ |

1LCA  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00FJ

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004  
 Lab Code: PDP Case No.: 27986 SAS No.: \_\_\_\_\_ SDG No.: E00FL  
 Lab Sample ID: 6050.006 Date Received: 05/03/00  
 Lab File ID: F1167 Date Analyzed: 05/08/00  
 Purge Volume: 20 (mL) Dilution Factor: 1.0  
 GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

| CAS NO.    | COMPOUND                    | CONCENTRATION<br>(ug/L) | Q |
|------------|-----------------------------|-------------------------|---|
| 74-87-3    | Chloromethane               | 1                       | U |
| 74-83-9    | Bromomethane                | 1                       | U |
| 75-01-4    | Vinyl chloride              | 1                       | U |
| 75-00-3    | Chloroethane                | 1                       | U |
| 75-09-2    | Methylene chloride          | 2                       | U |
| 67-64-1    | Acetone                     | 5                       | U |
| 75-15-0    | Carbon disulfide            | 1                       | U |
| 75-35-4    | 1,1-Dichloroethene          | 1                       | U |
| 75-34-3    | 1,1-Dichloroethane          | 1                       | U |
| 156-59-2   | cis-1,2-Dichloroethene      | 1                       | U |
| 156-60-5   | trans-1,2-Dichloroethene    | 1                       | U |
| 67-66-3    | Chloroform                  | 3                       |   |
| 107-06-2   | 1,2-Dichloroethane          | 1                       | U |
| 78-93-3    | 2-Butanone                  | 5                       | U |
| 74-97-5    | Bromochloromethane          | 1                       | U |
| 71-55-6    | 1,1,1-Trichloroethane       | 1                       | U |
| 56-23-5    | Carbon tetrachloride        | 1                       | U |
| 75-27-4    | Bromodichloromethane        | 2                       |   |
| 78-87-5    | 1,2-Dichloropropane         | 1                       | U |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1                       | U |
| 79-01-6    | Trichloroethene             | 1                       | U |
| 124-48-1   | Dibromochloromethane        | 2                       |   |
| 79-00-5    | 1,1,2-Trichloroethane       | 1                       | U |
| 71-43-2    | Benzene                     | 1                       | U |
| 10061-02-6 | trans-1,3-Dichloropropene   | 1                       | U |
| 75-25-2    | Bromoform                   | 1                       |   |
| 108-10-1   | 4-Methyl-2-pentanone        | 5                       | U |
| 591-78-6   | 2-Hexanone                  | 5                       | U |
| 127-18-4   | Tetrachloroethene           | 1                       | U |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 1                       | U |
| 106-93-4   | 1,2-Dibromoethane           | 1                       | U |
| 108-88-3   | Toluene                     | 1                       | U |
| 108-90-7   | Chlorobenzene               | 1                       | U |
| 100-41-4   | Ethylbenzene                | 1                       | U |
| 100-42-5   | Styrene                     | 1                       | U |
| 1330-20-7  | Xylenes (total)             | 1                       | U |
| 541-73-1   | 1,3-Dichlorobenzene         | 1                       | U |
| 106-46-7   | 1,4-Dichlorobenzene         | 1                       | U |
| 95-50-1    | 1,2-Dichlorobenzene         | 1                       | U |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | 1                       | U |
| 120-82-1   | 1,2,4-Trichlorobenzene      | 1                       | U |

1LCE  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00FJ

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004

Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: E00FL

Lab Sample ID: 6050.006      Date Received: 05/03/00

Lab File ID: F1167      Date Analyzed: 05/08/00

Purge Volume: 20 (mL)      Dilution Factor: 1.0

GC Column: DB-624      ID: 0.53 (mm) Length: 60 (m)

Number TICs found: 0

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC.<br>(ug/L) | Q |
|------------|---------------|----|----------------------|---|
| 1.         |               |    |                      |   |
| 2.         |               |    |                      |   |
| 3.         |               |    |                      |   |
| 4.         |               |    |                      |   |
| 5.         |               |    |                      |   |
| 6.         |               |    |                      |   |
| 7.         |               |    |                      |   |
| 8.         |               |    |                      |   |
| 9.         |               |    |                      |   |
| 10.        |               |    |                      |   |
| 11.        |               |    |                      |   |
| 12.        |               |    |                      |   |
| 13.        |               |    |                      |   |
| 14.        |               |    |                      |   |
| 15.        |               |    |                      |   |
| 16.        |               |    |                      |   |
| 17.        |               |    |                      |   |
| 18.        |               |    |                      |   |
| 19.        |               |    |                      |   |
| 20.        |               |    |                      |   |
| 21.        |               |    |                      |   |
| 22.        |               |    |                      |   |
| 23.        |               |    |                      |   |
| 24.        |               |    |                      |   |
| 25.        |               |    |                      |   |
| 26.        |               |    |                      |   |
| 27.        |               |    |                      |   |
| 28.        |               |    |                      |   |
| 29.        |               |    |                      |   |
| 30.        |               |    |                      |   |

1LCA  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00FK

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: E00FL

Lab Sample ID: 6050.007

Date Received: 05/03/00

Lab File ID: F1168

Date Analyzed: 05/08/00

Purge Volume: 20 (mL)

Dilution Factor: 1.0

GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

| CAS NO.    | COMPOUND                    | CONCENTRATION (ug/L) | Q |
|------------|-----------------------------|----------------------|---|
| 74-87-3    | Chloromethane               | 1                    | U |
| 74-83-9    | Bromomethane                | 1                    | U |
| 75-01-4    | Vinyl chloride              | 1                    | U |
| 75-00-3    | Chloroethane                | 1                    | U |
| 75-09-2    | Methylene chloride          | 2                    | U |
| 67-64-1    | Acetone                     | 5                    | U |
| 75-15-0    | Carbon disulfide            | 1                    | U |
| 75-35-4    | 1,1-Dichloroethene          | 1                    | U |
| 75-34-3    | 1,1-Dichloroethane          | 1                    | U |
| 156-59-2   | cis-1,2-Dichloroethene      | 1                    | U |
| 156-60-5   | trans-1,2-Dichloroethene    | 1                    | U |
| 67-66-3    | Chloroform                  | 1                    | U |
| 107-06-2   | 1,2-Dichloroethane          | 1                    | U |
| 78-93-3    | 2-Butanone                  | 5                    | U |
| 74-97-5    | Bromochloromethane          | 1                    | U |
| 71-55-6    | 1,1,1-Trichloroethane       | 1                    | U |
| 56-23-5    | Carbon tetrachloride        | 1                    | U |
| 75-27-4    | Bromodichloromethane        | 1                    | U |
| 78-87-5    | 1,2-Dichloropropane         | 1                    | U |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1                    | U |
| 79-01-6    | Trichloroethene             | 1                    | U |
| 124-48-1   | Dibromochloromethane        | 1                    | U |
| 79-00-5    | 1,1,2-Trichloroethane       | 1                    | U |
| 71-43-2    | Benzene                     | 1                    | U |
| 10061-02-6 | trans-1,3-Dichloropropene   | 1                    | U |
| 75-25-2    | Bromoform                   | 1                    | U |
| 108-10-1   | 4-Methyl-2-pentanone        | 5                    | U |
| 591-78-6   | 2-Hexanone                  | 5                    | U |
| 127-18-4   | Tetrachloroethene           | 1                    | U |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 1                    | U |
| 106-93-4   | 1,2-Dibromoethane           | 1                    | U |
| 108-88-3   | Toluene                     | 1                    | U |
| 108-90-7   | Chlorobenzene               | 1                    | U |
| 100-41-4   | Ethylbenzene                | 1                    | U |
| 100-42-5   | Styrene                     | 1                    | U |
| 1330-20-7  | Xylenes (total)             | 1                    | U |
| 541-73-1   | 1,3-Dichlorobenzene         | 1                    | U |
| 106-46-7   | 1,4-Dichlorobenzene         | 1                    | U |
| 95-50-1    | 1,2-Dichlorobenzene         | 1                    | U |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | 1                    | U |
| 120-82-1   | 1,2,4-Trichlorobenzene      | 1                    | U |

1LCE  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00FK

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004

Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: E00FL

Lab Sample ID: 6050.007      Date Received: 05/03/00

Lab File ID: F1168      Date Analyzed: 05/08/00

Purge Volume: 20 (mL)      Dilution Factor: 1.0

GC Column: DB-624      ID: 0.53 (mm) Length: 60 (m)

Number TICs found: 0

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC.<br>(ug/L) | Q |
|------------|---------------|----|----------------------|---|
| 1.         |               |    |                      |   |
| 2.         |               |    |                      |   |
| 3.         |               |    |                      |   |
| 4.         |               |    |                      |   |
| 5.         |               |    |                      |   |
| 6.         |               |    |                      |   |
| 7.         |               |    |                      |   |
| 8.         |               |    |                      |   |
| 9.         |               |    |                      |   |
| 10.        |               |    |                      |   |
| 11.        |               |    |                      |   |
| 12.        |               |    |                      |   |
| 13.        |               |    |                      |   |
| 14.        |               |    |                      |   |
| 15.        |               |    |                      |   |
| 16.        |               |    |                      |   |
| 17.        |               |    |                      |   |
| 18.        |               |    |                      |   |
| 19.        |               |    |                      |   |
| 20.        |               |    |                      |   |
| 21.        |               |    |                      |   |
| 22.        |               |    |                      |   |
| 23.        |               |    |                      |   |
| 24.        |               |    |                      |   |
| 25.        |               |    |                      |   |
| 26.        |               |    |                      |   |
| 27.        |               |    |                      |   |
| 28.        |               |    |                      |   |
| 29.        |               |    |                      |   |
| 30.        |               |    |                      |   |

1LCA  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00FL

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: E00FL

Lab Sample ID: 6050.002

Date Received: 05/03/00

Lab File ID: F1145

Date Analyzed: 05/05/00

Purge Volume: 20 (mL)

Dilution Factor: 1.0

GC Column: DB-624

ID: 0.53 (mm) Length: 60 (m)

| CAS NO.    | COMPOUND                    | CONCENTRATION (ug/L) | Q |
|------------|-----------------------------|----------------------|---|
| 74-87-3    | Chloromethane               | 1                    | U |
| 74-83-9    | Bromomethane                | 1                    | U |
| 75-01-4    | Vinyl chloride              | 1                    | U |
| 75-00-3    | Chloroethane                | 1                    | U |
| 75-09-2    | Methylene chloride          | 0.9                  | J |
| 67-64-1    | Acetone                     | 5                    | U |
| 75-15-0    | Carbon disulfide            | 1                    | U |
| 75-35-4    | 1,1-Dichloroethene          | 1                    | U |
| 75-34-3    | 1,1-Dichloroethane          | 1                    | U |
| 156-59-2   | cis-1,2-Dichloroethene      | 1                    | U |
| 156-60-5   | trans-1,2-Dichloroethene    | 1                    | U |
| 67-66-3    | Chloroform                  | 1                    | U |
| 107-06-2   | 1,2-Dichloroethane          | 1                    | U |
| 78-93-3    | 2-Butanone                  | 5                    | U |
| 74-97-5    | Bromochloromethane          | 1                    | U |
| 71-55-6    | 1,1,1-Trichloroethane       | 1                    | U |
| 56-23-5    | Carbon tetrachloride        | 1                    | U |
| 75-27-4    | Bromodichloromethane        | 1                    | U |
| 78-87-5    | 1,2-Dichloropropane         | 1                    | U |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1                    | U |
| 79-01-6    | Trichloroethene             | 1                    | U |
| 124-48-1   | Dibromochloromethane        | 1                    | U |
| 79-00-5    | 1,1,2-Trichloroethane       | 1                    | U |
| 71-43-2    | Benzene                     | 1                    | U |
| 10061-02-6 | trans-1,3-Dichloropropene   | 1                    | U |
| 75-25-2    | Bromoform                   | 1                    | U |
| 108-10-1   | 4-Methyl-2-pentanone        | 5                    | U |
| 591-78-6   | 2-Hexanone                  | 5                    | U |
| 127-18-4   | Tetrachloroethene           | 1                    | U |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 1                    | U |
| 106-93-4   | 1,2-Dibromoethane           | 1                    | U |
| 108-88-3   | Toluene                     | 1                    | U |
| 108-90-7   | Chlorobenzene               | 1                    | U |
| 100-41-4   | Ethylbenzene                | 1                    | U |
| 100-42-5   | Styrene                     | 1                    | U |
| 1330-20-7  | Xylenes (total)             | 1                    | U |
| 541-73-1   | 1,3-Dichlorobenzene         | 1                    | U |
| 106-46-7   | 1,4-Dichlorobenzene         | 1                    | U |
| 95-50-1    | 1,2-Dichlorobenzene         | 1                    | U |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | 1                    | U |
| 120-82-1   | 1,2,4-Trichlorobenzene      | 1                    | U |

1LCE  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00FL

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004

Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: E00FL

Lab Sample ID: 6050.002      Date Received: 05/03/00

Lab File ID: F1145      Date Analyzed: 05/05/00

Purge Volume: 20 (mL)      Dilution Factor: 1.0

GC Column: DB-624      ID: 0.53 (mm) Length: 60 (m)

Number TICs found: 0

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC.<br>(ug/L) | Q |
|------------|---------------|----|----------------------|---|
| 1.         |               |    |                      |   |
| 2.         |               |    |                      |   |
| 3.         |               |    |                      |   |
| 4.         |               |    |                      |   |
| 5.         |               |    |                      |   |
| 6.         |               |    |                      |   |
| 7.         |               |    |                      |   |
| 8.         |               |    |                      |   |
| 9.         |               |    |                      |   |
| 10.        |               |    |                      |   |
| 11.        |               |    |                      |   |
| 12.        |               |    |                      |   |
| 13.        |               |    |                      |   |
| 14.        |               |    |                      |   |
| 15.        |               |    |                      |   |
| 16.        |               |    |                      |   |
| 17.        |               |    |                      |   |
| 18.        |               |    |                      |   |
| 19.        |               |    |                      |   |
| 20.        |               |    |                      |   |
| 21.        |               |    |                      |   |
| 22.        |               |    |                      |   |
| 23.        |               |    |                      |   |
| 24.        |               |    |                      |   |
| 25.        |               |    |                      |   |
| 26.        |               |    |                      |   |
| 27.        |               |    |                      |   |
| 28.        |               |    |                      |   |
| 29.        |               |    |                      |   |
| 30.        |               |    |                      |   |

1LCA  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E01TP

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: E00FL

Lab Sample ID: 6066.010

Date Received: 05/05/00

Lab File ID: E0887

Date Analyzed: 05/12/00

Purge Volume: 20 (mL)

Dilution Factor: 1.0

GC Column: DB-624

ID: 0.53 (mm) Length: 60 (m)

| CAS NO.    | COMPOUND                    | CONCENTRATION<br>(ug/L) | Q |
|------------|-----------------------------|-------------------------|---|
| 74-87-3    | Chloromethane               | 1                       | U |
| 74-83-9    | Bromomethane                | 1                       | U |
| 75-01-4    | Vinyl chloride              | 1                       | U |
| 75-00-3    | Chloroethane                | 1                       | U |
| 75-09-2    | Methylene chloride          | 2                       | U |
| 67-64-1    | Acetone                     | 5                       | U |
| 75-15-0    | Carbon disulfide            | 1                       | U |
| 75-35-4    | 1,1-Dichloroethene          | 1                       | U |
| 75-34-3    | 1,1-Dichloroethane          | 3                       | U |
| 156-59-2   | cis-1,2-Dichloroethene      | 1                       | U |
| 156-60-5   | trans-1,2-Dichloroethene    | 1                       | U |
| 67-66-3    | Chloroform                  | 1                       | U |
| 107-06-2   | 1,2-Dichloroethane          | 1                       | U |
| 78-93-3    | 2-Butanone                  | 5                       | U |
| 74-97-5    | Bromochloromethane          | 1                       | U |
| 71-55-6    | 1,1,1-Trichloroethane       | 1                       | U |
| 56-23-5    | Carbon tetrachloride        | 1                       | U |
| 75-27-4    | Bromodichloromethane        | 1                       | U |
| 78-87-5    | 1,2-Dichloropropane         | 1                       | U |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1                       | U |
| 79-01-6    | Trichloroethene             | 1                       | U |
| 124-48-1   | Dibromochloromethane        | 1                       | U |
| 79-00-5    | 1,1,2-Trichloroethane       | 1                       | U |
| 71-43-2    | Benzene                     | 1                       | U |
| 10061-02-6 | trans-1,3-Dichloropropene   | 1                       | U |
| 75-25-2    | Bromoform                   | 1                       | U |
| 108-10-1   | 4-Methyl-2-pentanone        | 5                       | U |
| 591-78-6   | 2-Hexanone                  | 5                       | U |
| 127-18-4   | Tetrachloroethene           | 1                       | U |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 1                       | U |
| 106-93-4   | 1,2-Dibromoethane           | 1                       | U |
| 108-88-3   | Toluene                     | 1                       | U |
| 108-90-7   | Chlorobenzene               | 1                       | U |
| 100-41-4   | Ethylbenzene                | 1                       | U |
| 100-42-5   | Styrene                     | 1                       | U |
| 1330-20-7  | Xylenes (total)             | 1                       | U |
| 541-73-1   | 1,3-Dichlorobenzene         | 1                       | U |
| 106-46-7   | 1,4-Dichlorobenzene         | 1                       | U |
| 95-50-1    | 1,2-Dichlorobenzene         | 1                       | U |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | 1                       | U |
| 120-82-1   | 1,2,4-Trichlorobenzene      | 1                       | U |

1LCE  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E01TP

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004

Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: E00FL

Lab Sample ID: 6066.010      Date Received: 05/05/00

Lab File ID: E0887      Date Analyzed: 05/12/00

Purge Volume: 20 (mL)      Dilution Factor: 1.0

GC Column: DB-624      ID: 0.53 (mm) Length: 60 (m)

Number TICs found: 1

| CAS NUMBER     | COMPOUND NAME            | RT    | EST. CONC.<br>(ug/L) | Q     |
|----------------|--------------------------|-------|----------------------|-------|
| 1. 000075-43-4 | Methane, dichlorofluoro- | 4.51  | 2                    | JN    |
| 2. _____       | _____                    | _____ | _____                | _____ |
| 3. _____       | _____                    | _____ | _____                | _____ |
| 4. _____       | _____                    | _____ | _____                | _____ |
| 5. _____       | _____                    | _____ | _____                | _____ |
| 6. _____       | _____                    | _____ | _____                | _____ |
| 7. _____       | _____                    | _____ | _____                | _____ |
| 8. _____       | _____                    | _____ | _____                | _____ |
| 9. _____       | _____                    | _____ | _____                | _____ |
| 10. _____      | _____                    | _____ | _____                | _____ |
| 11. _____      | _____                    | _____ | _____                | _____ |
| 12. _____      | _____                    | _____ | _____                | _____ |
| 13. _____      | _____                    | _____ | _____                | _____ |
| 14. _____      | _____                    | _____ | _____                | _____ |
| 15. _____      | _____                    | _____ | _____                | _____ |
| 16. _____      | _____                    | _____ | _____                | _____ |
| 17. _____      | _____                    | _____ | _____                | _____ |
| 18. _____      | _____                    | _____ | _____                | _____ |
| 19. _____      | _____                    | _____ | _____                | _____ |
| 20. _____      | _____                    | _____ | _____                | _____ |
| 21. _____      | _____                    | _____ | _____                | _____ |
| 22. _____      | _____                    | _____ | _____                | _____ |
| 23. _____      | _____                    | _____ | _____                | _____ |
| 24. _____      | _____                    | _____ | _____                | _____ |
| 25. _____      | _____                    | _____ | _____                | _____ |
| 26. _____      | _____                    | _____ | _____                | _____ |
| 27. _____      | _____                    | _____ | _____                | _____ |
| 28. _____      | _____                    | _____ | _____                | _____ |
| 29. _____      | _____                    | _____ | _____                | _____ |
| 30. _____      | _____                    | _____ | _____                | _____ |

1LCA  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E01TQ

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: E00FL

Lab Sample ID: 6066.011

Date Received: 05/05/00

Lab File ID: E0888

Date Analyzed: 05/12/00

Purge Volume: 20 (mL)

Dilution Factor: 1.0

GC Column: DB-624

ID: 0.53 (mm) Length: 60 (m)

| CAS NO.    | COMPOUND                    | CONCENTRATION (ug/L) | Q |
|------------|-----------------------------|----------------------|---|
| 74-87-3    | Chloromethane               | 1                    | U |
| 74-83-9    | Bromomethane                | 1                    | U |
| 75-01-4    | Vinyl chloride              | 1                    | U |
| 75-00-3    | Chloroethane                | 1                    | U |
| 75-09-2    | Methylene chloride          | 2                    | U |
| 67-64-1    | Acetone                     | 5                    | U |
| 75-15-0    | Carbon disulfide            | 1                    | U |
| 75-35-4    | 1,1-Dichloroethene          | 1                    | U |
| 75-34-3    | 1,1-Dichloroethane          | 1                    | U |
| 156-59-2   | cis-1,2-Dichloroethene      | 1                    | U |
| 156-60-5   | trans-1,2-Dichloroethene    | 1                    | U |
| 67-66-3    | Chloroform                  | 1                    | U |
| 107-06-2   | 1,2-Dichloroethane          | 1                    | U |
| 78-93-3    | 2-Butanone                  | 5                    | U |
| 74-97-5    | Bromochloromethane          | 1                    | U |
| 71-55-6    | 1,1,1-Trichloroethane       | 1                    | U |
| 56-23-5    | Carbon tetrachloride        | 1                    | U |
| 75-27-4    | Bromodichloromethane        | 1                    | U |
| 78-87-5    | 1,2-Dichloropropane         | 1                    | U |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1                    | U |
| 79-01-6    | Trichloroethene             | 1                    | U |
| 124-48-1   | Dibromochloromethane        | 1                    | U |
| 79-00-5    | 1,1,2-Trichloroethane       | 1                    | U |
| 71-43-2    | Benzene                     | 1                    | U |
| 10061-02-6 | trans-1,3-Dichloropropene   | 1                    | U |
| 75-25-2    | Bromoform                   | 1                    | U |
| 108-10-1   | 4-Methyl-2-pentanone        | 5                    | U |
| 591-78-6   | 2-Hexanone                  | 5                    | U |
| 127-18-4   | Tetrachloroethene           | 1                    | U |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 1                    | U |
| 106-93-4   | 1,2-Dibromoethane           | 1                    | U |
| 108-88-3   | Toluene                     | 1                    | U |
| 108-90-7   | Chlorobenzene               | 1                    | U |
| 100-41-4   | Ethylbenzene                | 1                    | U |
| 100-42-5   | Styrene                     | 1                    | U |
| 1330-20-7  | Xylenes (total)             | 1                    | U |
| 541-73-1   | 1,3-Dichlorobenzene         | 1                    | U |
| 106-46-7   | 1,4-Dichlorobenzene         | 1                    | U |
| 95-50-1    | 1,2-Dichlorobenzene         | 1                    | U |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | 1                    | U |
| 120-82-1   | 1,2,4-Trichlorobenzene      | 1                    | U |

1LCE  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E01TQ

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004

Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: E00FL

Lab Sample ID: 6066.011      Date Received: 05/05/00

Lab File ID: E0888      Date Analyzed: 05/12/00

Purge Volume: 20 (mL)      Dilution Factor: 1.0

GC Column: DB-624      ID: 0.53 (mm) Length: 60 (m)

Number TICs found: 2

| CAS NUMBER     | COMPOUND NAME            | RT   | EST. CONC.<br>(ug/L) | Q  |
|----------------|--------------------------|------|----------------------|----|
| 1. 000075-43-4 | Methane, dichlorofluoro- | 4.52 | 5                    | JN |
| 2. 000060-29-7 | Ethyl ether              | 5.15 | 2                    | JN |
| 3.             |                          |      |                      |    |
| 4.             |                          |      |                      |    |
| 5.             |                          |      |                      |    |
| 6.             |                          |      |                      |    |
| 7.             |                          |      |                      |    |
| 8.             |                          |      |                      |    |
| 9.             |                          |      |                      |    |
| 10.            |                          |      |                      |    |
| 11.            |                          |      |                      |    |
| 12.            |                          |      |                      |    |
| 13.            |                          |      |                      |    |
| 14.            |                          |      |                      |    |
| 15.            |                          |      |                      |    |
| 16.            |                          |      |                      |    |
| 17.            |                          |      |                      |    |
| 18.            |                          |      |                      |    |
| 19.            |                          |      |                      |    |
| 20.            |                          |      |                      |    |
| 21.            |                          |      |                      |    |
| 22.            |                          |      |                      |    |
| 23.            |                          |      |                      |    |
| 24.            |                          |      |                      |    |
| 25.            |                          |      |                      |    |
| 26.            |                          |      |                      |    |
| 27.            |                          |      |                      |    |
| 28.            |                          |      |                      |    |
| 29.            |                          |      |                      |    |
| 30.            |                          |      |                      |    |

1LCA  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ECFN2

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004  
 Lab Code: PDP Case No.: 27986 SAS No.: \_\_\_\_\_ SDG No.: E00FL  
 Lab Sample ID: 6066.003 Date Received: 05/05/00  
 Lab File ID: E0872 Date Analyzed: 05/11/00  
 Purge Volume: 20 (mL) Dilution Factor: 1.0  
 GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

| CAS NO.    | COMPOUND                    | CONCENTRATION<br>(ug/L) | Q |
|------------|-----------------------------|-------------------------|---|
| 74-87-3    | Chloromethane               | 1                       | U |
| 74-83-9    | Bromomethane                | 1                       | U |
| 75-01-4    | Vinyl chloride              | 1                       | U |
| 75-00-3    | Chloroethane                | 1                       | U |
| 75-09-2    | Methylene chloride          | 2                       | U |
| 67-64-1    | Acetone                     | 5                       | U |
| 75-15-0    | Carbon disulfide            | 1                       | U |
| 75-35-4    | 1,1-Dichloroethene          | 1                       | U |
| 75-34-3    | 1,1-Dichloroethane          | 8                       |   |
| 156-59-2   | cis-1,2-Dichloroethene      | 1                       | U |
| 156-60-5   | trans-1,2-Dichloroethene    | 1                       | U |
| 67-66-3    | Chloroform                  | 1                       | U |
| 107-06-2   | 1,2-Dichloroethane          | 1                       | U |
| 78-93-3    | 2-Butanone                  | 5                       | U |
| 74-97-5    | Bromochloromethane          | 1                       | U |
| 71-55-6    | 1,1,1-Trichloroethane       | 1                       | U |
| 56-23-5    | Carbon tetrachloride        | 1                       | U |
| 75-27-4    | Bromodichloromethane        | 1                       | U |
| 78-87-5    | 1,2-Dichloropropane         | 1                       | U |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1                       | U |
| 79-01-6    | Trichloroethene             | 1                       | U |
| 124-48-1   | Dibromochloromethane        | 1                       | U |
| 79-00-5    | 1,1,2-Trichloroethane       | 1                       | U |
| 71-43-2    | Benzene                     | 2                       |   |
| 10061-02-6 | trans-1,3-Dichloropropene   | 1                       | U |
| 75-25-2    | Bromoform                   | 1                       | U |
| 108-10-1   | 4-Methyl-2-pentanone        | 5                       | U |
| 591-78-6   | 2-Hexanone                  | 5                       | U |
| 127-18-4   | Tetrachloroethene           | 1                       | U |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 1                       | U |
| 106-93-4   | 1,2-Dibromoethane           | 1                       | U |
| 108-88-3   | Toluene                     | 1                       | U |
| 108-90-7   | Chlorobenzene               | 1                       | U |
| 100-41-4   | Ethylbenzene                | 1                       | U |
| 100-42-5   | Styrene                     | 1                       | U |
| 1330-20-7  | Xylenes (total)             | 1                       | U |
| 541-73-1   | 1,3-Dichlorobenzene         | 1                       | U |
| 106-46-7   | 1,4-Dichlorobenzene         | 1                       | U |
| 95-50-1    | 1,2-Dichlorobenzene         | 1                       | U |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | 1                       | U |
| 120-82-1   | 1,2,4-Trichlorobenzene      | 1                       | U |

1LCE  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ECFN2

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004

Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: E00FL

Lab Sample ID: 6066.003      Date Received: 05/05/00

Lab File ID: E0872      Date Analyzed: 05/11/00

Purge Volume: 20 (mL)      Dilution Factor: 1.0

GC Column: DB-624      ID: 0.53 (mm) Length: 60 (m)

Number TICs found:      3

| CAS NUMBER     | COMPOUND NAME            | RT   | EST. CONC.<br>(ug/L) | Q  |
|----------------|--------------------------|------|----------------------|----|
| 1. 000593-70-4 | Methane, chlorofluoro-   | 3.26 | 4                    | JN |
| 2. 000075-43-4 | Methane, dichlorofluoro- | 4.58 | 4                    | JN |
| 3. 000060-29-7 | Ethyl ether              | 5.22 | 6                    | JN |
| 4.             |                          |      |                      |    |
| 5.             |                          |      |                      |    |
| 6.             |                          |      |                      |    |
| 7.             |                          |      |                      |    |
| 8.             |                          |      |                      |    |
| 9.             |                          |      |                      |    |
| 10.            |                          |      |                      |    |
| 11.            |                          |      |                      |    |
| 12.            |                          |      |                      |    |
| 13.            |                          |      |                      |    |
| 14.            |                          |      |                      |    |
| 15.            |                          |      |                      |    |
| 16.            |                          |      |                      |    |
| 17.            |                          |      |                      |    |
| 18.            |                          |      |                      |    |
| 19.            |                          |      |                      |    |
| 20.            |                          |      |                      |    |
| 21.            |                          |      |                      |    |
| 22.            |                          |      |                      |    |
| 23.            |                          |      |                      |    |
| 24.            |                          |      |                      |    |
| 25.            |                          |      |                      |    |
| 26.            |                          |      |                      |    |
| 27.            |                          |      |                      |    |
| 28.            |                          |      |                      |    |
| 29.            |                          |      |                      |    |
| 30.            |                          |      |                      |    |

1LCA  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ECFN3

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: E00FL

Lab Sample ID: 6066.004

Date Received: 05/05/00

Lab File ID: E0873

Date Analyzed: 05/11/00

Purge Volume: 20 (mL)

Dilution Factor: 1.0

GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

| CAS NO.    | COMPOUND                    | CONCENTRATION<br>(ug/L) | Q |
|------------|-----------------------------|-------------------------|---|
| 74-87-3    | Chloromethane               | 1                       | U |
| 74-83-9    | Bromomethane                | 1                       | U |
| 75-01-4    | Vinyl chloride              | 1                       | U |
| 75-00-3    | Chloroethane                | 2                       |   |
| 75-09-2    | Methylene chloride          | 2                       | U |
| 67-64-1    | Acetone                     | 5                       | U |
| 75-15-0    | Carbon disulfide            | 1                       | U |
| 75-35-4    | 1,1-Dichloroethene          | 1                       | U |
| 75-34-3    | 1,1-Dichloroethane          | 8                       |   |
| 156-59-2   | cis-1,2-Dichloroethene      | 1                       | U |
| 156-60-5   | trans-1,2-Dichloroethene    | 1                       | U |
| 67-66-3    | Chloroform                  | 1                       | U |
| 107-06-2   | 1,2-Dichloroethane          | 1                       | U |
| 78-93-3    | 2-Butanone                  | 5                       | U |
| 74-97-5    | Bromochloromethane          | 1                       | U |
| 71-55-6    | 1,1,1-Trichloroethane       | 1                       | U |
| 56-23-5    | Carbon tetrachloride        | 1                       | U |
| 75-27-4    | Bromodichloromethane        | 1                       | U |
| 78-87-5    | 1,2-Dichloropropane         | 1                       | U |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1                       | U |
| 79-01-6    | Trichloroethene             | 1                       | U |
| 124-48-1   | Dibromochloromethane        | 1                       | U |
| 79-00-5    | 1,1,2-Trichloroethane       | 1                       | U |
| 71-43-2    | Benzene                     | 2                       |   |
| 10061-02-6 | trans-1,3-Dichloropropene   | 1                       | U |
| 75-25-2    | Bromoform                   | 1                       | U |
| 108-10-1   | 4-Methyl-2-pentanone        | 5                       | U |
| 591-78-6   | 2-Hexanone                  | 5                       | U |
| 127-18-4   | Tetrachloroethene           | 1                       | U |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 1                       | U |
| 106-93-4   | 1,2-Dibromoethane           | 1                       | U |
| 108-88-3   | Toluene                     | 1                       | U |
| 108-90-7   | Chlorobenzene               | 1                       | U |
| 100-41-4   | Ethylbenzene                | 1                       | U |
| 100-42-5   | Styrene                     | 1                       | U |
| 1330-20-7  | Xylenes (total)             | 1                       | U |
| 541-73-1   | 1,3-Dichlorobenzene         | 1                       | U |
| 106-46-7   | 1,4-Dichlorobenzene         | 1                       | U |
| 95-50-1    | 1,2-Dichlorobenzene         | 1                       | U |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | 1                       | U |
| 120-82-1   | 1,2,4-Trichlorobenzene      | 1                       | U |

1LCE  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ECFN3

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004

Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: E00FL

Lab Sample ID: 6066.004      Date Received: 05/05/00

Lab File ID: E0873      Date Analyzed: 05/11/00

Purge Volume: 20 (mL)      Dilution Factor: 1.0

GC Column: DB-624      ID: 0.53 (mm) Length: 60 (m)

Number TICs found: 4

| CAS NUMBER     | COMPOUND NAME            | RT   | EST. CONC.<br>(ug/L) | Q  |
|----------------|--------------------------|------|----------------------|----|
| 1. 000593-70-4 | Methane, chlorofluoro-   | 3.24 | 4                    | JN |
| 2. 000075-43-4 | Methane, dichlorofluoro- | 4.57 | 3                    | JN |
| 3. 000060-29-7 | Ethyl ether              | 5.21 | 2                    | JN |
| 4. 000060-29-7 | Ethyl ether              | 5.22 | 3                    | JN |
| 5.             |                          |      |                      |    |
| 6.             |                          |      |                      |    |
| 7.             |                          |      |                      |    |
| 8.             |                          |      |                      |    |
| 9.             |                          |      |                      |    |
| 10.            |                          |      |                      |    |
| 11.            |                          |      |                      |    |
| 12.            |                          |      |                      |    |
| 13.            |                          |      |                      |    |
| 14.            |                          |      |                      |    |
| 15.            |                          |      |                      |    |
| 16.            |                          |      |                      |    |
| 17.            |                          |      |                      |    |
| 18.            |                          |      |                      |    |
| 19.            |                          |      |                      |    |
| 20.            |                          |      |                      |    |
| 21.            |                          |      |                      |    |
| 22.            |                          |      |                      |    |
| 23.            |                          |      |                      |    |
| 24.            |                          |      |                      |    |
| 25.            |                          |      |                      |    |
| 26.            |                          |      |                      |    |
| 27.            |                          |      |                      |    |
| 28.            |                          |      |                      |    |
| 29.            |                          |      |                      |    |
| 30.            |                          |      |                      |    |

1LCA  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ECFN4

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: E00FL

Lab Sample ID: 6066.005

Date Received: 05/05/00

Lab File ID: E0874

Date Analyzed: 05/11/00

Purge Volume: 20 (mL)

Dilution Factor: 1.0

GC Column: DB-624

ID: 0.53 (mm) Length: 60 (m)

| CAS NO.    | COMPOUND                         | CONCENTRATION<br>(ug/L) | Q |
|------------|----------------------------------|-------------------------|---|
| 74-87-3    | -----Chloromethane               | 1                       | U |
| 74-83-9    | -----Bromomethane                | 1                       | U |
| 75-01-4    | -----Vinyl chloride              | 1                       | U |
| 75-00-3    | -----Chloroethane                | 2                       |   |
| 75-09-2    | -----Methylene chloride          | 2                       | U |
| 67-64-1    | -----Acetone                     | 5                       | U |
| 75-15-0    | -----Carbon disulfide            | 1                       | U |
| 75-35-4    | -----1,1-Dichloroethene          | 1                       | U |
| 75-34-3    | -----1,1-Dichloroethane          | 1                       | U |
| 156-59-2   | -----cis-1,2-Dichloroethene      | 1                       | U |
| 156-60-5   | -----trans-1,2-Dichloroethene    | 1                       | U |
| 67-66-3    | -----Chloroform                  | 1                       | U |
| 107-06-2   | -----1,2-Dichloroethane          | 1                       | U |
| 78-93-3    | -----2-Butanone                  | 5                       | U |
| 74-97-5    | -----Bromochloromethane          | 1                       | U |
| 71-55-6    | -----1,1,1-Trichloroethane       | 1                       | U |
| 56-23-5    | -----Carbon tetrachloride        | 1                       | U |
| 75-27-4    | -----Bromodichloromethane        | 1                       | U |
| 78-87-5    | -----1,2-Dichloropropane         | 1                       | U |
| 10061-01-5 | -----cis-1,3-Dichloropropene     | 1                       | U |
| 79-01-6    | -----Trichloroethene             | 1                       | U |
| 124-48-1   | -----Dibromochloromethane        | 1                       | U |
| 79-00-5    | -----1,1,2-Trichloroethane       | 1                       | U |
| 71-43-2    | -----Benzene                     | 1                       | U |
| 10061-02-6 | -----trans-1,3-Dichloropropene   | 1                       | U |
| 75-25-2    | -----Bromoform                   | 1                       | U |
| 108-10-1   | -----4-Methyl-2-pentanone        | 5                       | U |
| 591-78-6   | -----2-Hexanone                  | 5                       | U |
| 127-18-4   | -----Tetrachloroethene           | 1                       | U |
| 79-34-5    | -----1,1,2,2-Tetrachloroethane   | 1                       | U |
| 106-93-4   | -----1,2-Dibromoethane           | 1                       | U |
| 108-88-3   | -----Toluene                     | 1                       | U |
| 108-90-7   | -----Chlorobenzene               | 1                       | U |
| 100-41-4   | -----Ethylbenzene                | 1                       | U |
| 100-42-5   | -----Styrene                     | 1                       | U |
| 1330-20-7  | -----Xylenes (total)             | 1                       | U |
| 541-73-1   | -----1,3-Dichlorobenzene         | 1                       | U |
| 106-46-7   | -----1,4-Dichlorobenzene         | 1                       | U |
| 95-50-1    | -----1,2-Dichlorobenzene         | 1                       | U |
| 96-12-8    | -----1,2-Dibromo-3-chloropropane | 1                       | U |
| 120-82-1   | -----1,2,4-Trichlorobenzene      | 1                       | U |

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 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ECFN4

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004

Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: E00FL

Lab Sample ID: 6066.005      Date Received: 05/05/00

Lab File ID: E0874      Date Analyzed: 05/11/00

Purge Volume: 20 (mL)      Dilution Factor: 1.0

GC Column: DB-624      ID: 0.53 (mm) Length: 60 (m)

Number TICs found: 2

| CAS NUMBER      | COMPOUND NAME          | RT    | EST. CONC.<br>(ug/L) | Q     |
|-----------------|------------------------|-------|----------------------|-------|
| 1. 000593-70-4  | Methane, chlorofluoro- | 3.25  | 4                    | JN    |
| 2. 1000221-95-9 | Ethene, ethyloxy-      | 5.23  | 4                    | JN    |
| 3. _____        | _____                  | _____ | _____                | _____ |
| 4. _____        | _____                  | _____ | _____                | _____ |
| 5. _____        | _____                  | _____ | _____                | _____ |
| 6. _____        | _____                  | _____ | _____                | _____ |
| 7. _____        | _____                  | _____ | _____                | _____ |
| 8. _____        | _____                  | _____ | _____                | _____ |
| 9. _____        | _____                  | _____ | _____                | _____ |
| 10. _____       | _____                  | _____ | _____                | _____ |
| 11. _____       | _____                  | _____ | _____                | _____ |
| 12. _____       | _____                  | _____ | _____                | _____ |
| 13. _____       | _____                  | _____ | _____                | _____ |
| 14. _____       | _____                  | _____ | _____                | _____ |
| 15. _____       | _____                  | _____ | _____                | _____ |
| 16. _____       | _____                  | _____ | _____                | _____ |
| 17. _____       | _____                  | _____ | _____                | _____ |
| 18. _____       | _____                  | _____ | _____                | _____ |
| 19. _____       | _____                  | _____ | _____                | _____ |
| 20. _____       | _____                  | _____ | _____                | _____ |
| 21. _____       | _____                  | _____ | _____                | _____ |
| 22. _____       | _____                  | _____ | _____                | _____ |
| 23. _____       | _____                  | _____ | _____                | _____ |
| 24. _____       | _____                  | _____ | _____                | _____ |
| 25. _____       | _____                  | _____ | _____                | _____ |
| 26. _____       | _____                  | _____ | _____                | _____ |
| 27. _____       | _____                  | _____ | _____                | _____ |
| 28. _____       | _____                  | _____ | _____                | _____ |
| 29. _____       | _____                  | _____ | _____                | _____ |
| 30. _____       | _____                  | _____ | _____                | _____ |

1LCA  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ECFN5

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004  
 Lab Code: PDP Case No.: 27986 SAS No.: \_\_\_\_\_ SDG No.: E00FL  
 Lab Sample ID: 6066.006 Date Received: 05/05/00  
 Lab File ID: E0875 Date Analyzed: 05/11/00  
 Purge Volume: 20 (mL) Dilution Factor: 1.0  
 GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

| CAS NO.    | COMPOUND                    | CONCENTRATION (ug/L) | Q |
|------------|-----------------------------|----------------------|---|
| 74-87-3    | Chloromethane               | 1                    | U |
| 74-83-9    | Bromomethane                | 1                    | U |
| 75-01-4    | Vinyl chloride              | 1                    |   |
| 75-00-3    | Chloroethane                | 1                    | U |
| 75-09-2    | Methylene chloride          | 2                    | U |
| 67-64-1    | Acetone                     | 5                    | U |
| 75-15-0    | Carbon disulfide            | 1                    | U |
| 75-35-4    | 1,1-Dichloroethene          | 1                    | U |
| 75-34-3    | 1,1-Dichloroethane          | 8                    |   |
| 156-59-2   | cis-1,2-Dichloroethene      | 1                    |   |
| 156-60-5   | trans-1,2-Dichloroethene    | 1                    | U |
| 67-66-3    | Chloroform                  | 1                    | U |
| 107-06-2   | 1,2-Dichloroethane          | 1                    | U |
| 78-93-3    | 2-Butanone                  | 5                    | U |
| 74-97-5    | Bromochloromethane          | 1                    | U |
| 71-55-6    | 1,1,1-Trichloroethane       | 1                    | U |
| 56-23-5    | Carbon tetrachloride        | 1                    | U |
| 75-27-4    | Bromodichloromethane        | 1                    | U |
| 78-87-5    | 1,2-Dichloropropane         | 1                    |   |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1                    | U |
| 79-01-6    | Trichloroethene             | 1                    | U |
| 124-48-1   | Dibromochloromethane        | 1                    | U |
| 79-00-5    | 1,1,2-Trichloroethane       | 1                    | U |
| 71-43-2    | Benzene                     | 1                    | U |
| 10061-02-6 | trans-1,3-Dichloropropene   | 1                    | U |
| 75-25-2    | Bromoform                   | 1                    | U |
| 108-10-1   | 4-Methyl-2-pentanone        | 5                    | U |
| 591-78-6   | 2-Hexanone                  | 5                    | U |
| 127-18-4   | Tetrachloroethene           | 1                    | U |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 1                    | U |
| 106-93-4   | 1,2-Dibromoethane           | 1                    | U |
| 108-88-3   | Toluene                     | 1                    | U |
| 108-90-7   | Chlorobenzene               | 1                    | U |
| 100-41-4   | Ethylbenzene                | 1                    | U |
| 100-42-5   | Styrene                     | 1                    | U |
| 1330-20-7  | Xylenes (total)             | 1                    | U |
| 541-73-1   | 1,3-Dichlorobenzene         | 1                    | U |
| 106-46-7   | 1,4-Dichlorobenzene         | 1                    | U |
| 95-50-1    | 1,2-Dichlorobenzene         | 1                    | U |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | 1                    | U |
| 120-82-1   | 1,2,4-Trichlorobenzene      | 1                    | U |

1LCE  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ECFN5

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004

Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: E00FL

Lab Sample ID: 6066.006      Date Received: 05/05/00

Lab File ID: E0875      Date Analyzed: 05/11/00

Purge Volume: 20 (mL)      Dilution Factor: 1.0

GC Column: DB-624      ID: 0.53 (mm) Length: 60 (m)

Number TICs found: 2

| CAS NUMBER     | COMPOUND NAME            | RT    | EST. CONC.<br>(ug/L) | Q     |
|----------------|--------------------------|-------|----------------------|-------|
| 1. 000075-43-4 | Methane, dichlorofluoro- | 4.55  | 7                    | JN    |
| 2. 000060-29-7 | Ethyl ether              | 5.19  | 8                    | JN    |
| 3. _____       | _____                    | _____ | _____                | _____ |
| 4. _____       | _____                    | _____ | _____                | _____ |
| 5. _____       | _____                    | _____ | _____                | _____ |
| 6. _____       | _____                    | _____ | _____                | _____ |
| 7. _____       | _____                    | _____ | _____                | _____ |
| 8. _____       | _____                    | _____ | _____                | _____ |
| 9. _____       | _____                    | _____ | _____                | _____ |
| 10. _____      | _____                    | _____ | _____                | _____ |
| 11. _____      | _____                    | _____ | _____                | _____ |
| 12. _____      | _____                    | _____ | _____                | _____ |
| 13. _____      | _____                    | _____ | _____                | _____ |
| 14. _____      | _____                    | _____ | _____                | _____ |
| 15. _____      | _____                    | _____ | _____                | _____ |
| 16. _____      | _____                    | _____ | _____                | _____ |
| 17. _____      | _____                    | _____ | _____                | _____ |
| 18. _____      | _____                    | _____ | _____                | _____ |
| 19. _____      | _____                    | _____ | _____                | _____ |
| 20. _____      | _____                    | _____ | _____                | _____ |
| 21. _____      | _____                    | _____ | _____                | _____ |
| 22. _____      | _____                    | _____ | _____                | _____ |
| 23. _____      | _____                    | _____ | _____                | _____ |
| 24. _____      | _____                    | _____ | _____                | _____ |
| 25. _____      | _____                    | _____ | _____                | _____ |
| 26. _____      | _____                    | _____ | _____                | _____ |
| 27. _____      | _____                    | _____ | _____                | _____ |
| 28. _____      | _____                    | _____ | _____                | _____ |
| 29. _____      | _____                    | _____ | _____                | _____ |
| 30. _____      | _____                    | _____ | _____                | _____ |

1LCA  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ECFN6

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004  
 Lab Code: PDP Case No.: 27986 SAS No.: \_\_\_\_\_ SDG No.: E00FL  
 Lab Sample ID: 6066.007 Date Received: 05/05/00  
 Lab File ID: E0876 Date Analyzed: 05/11/00  
 Purge Volume: 20 (mL) Dilution Factor: 1.0  
 GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

| CAS NO.    | COMPOUND                    | CONCENTRATION (ug/L) | Q |
|------------|-----------------------------|----------------------|---|
| 74-87-3    | Chloromethane               | 1                    | U |
| 74-83-9    | Bromomethane                | 1                    | U |
| 75-01-4    | Vinyl chloride              | 1                    |   |
| 75-00-3    | Chloroethane                | 1                    | U |
| 75-09-2    | Methylene chloride          | 2                    | U |
| 67-64-1    | Acetone                     | 5                    | U |
| 75-15-0    | Carbon disulfide            | 1                    | U |
| 75-35-4    | 1,1-Dichloroethene          | 1                    | U |
| 75-34-3    | 1,1-Dichloroethane          | 7                    |   |
| 156-59-2   | cis-1,2-Dichloroethene      | 1                    |   |
| 156-60-5   | trans-1,2-Dichloroethene    | 1                    | U |
| 67-66-3    | Chloroform                  | 1                    | U |
| 107-06-2   | 1,2-Dichloroethane          | 1                    | U |
| 78-93-3    | 2-Butanone                  | 5                    | U |
| 74-97-5    | Bromochloromethane          | 1                    | U |
| 71-55-6    | 1,1,1-Trichloroethane       | 1                    | U |
| 56-23-5    | Carbon tetrachloride        | 1                    | U |
| 75-27-4    | Bromodichloromethane        | 1                    | U |
| 78-87-5    | 1,2-Dichloropropane         | 1                    |   |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1                    | U |
| 79-01-6    | Trichloroethene             | 1                    | U |
| 124-48-1   | Dibromochloromethane        | 1                    | U |
| 79-00-5    | 1,1,2-Trichloroethane       | 1                    | U |
| 71-43-2    | Benzene                     | 1                    | U |
| 10061-02-6 | trans-1,3-Dichloropropene   | 1                    | U |
| 75-25-2    | Bromoform                   | 1                    | U |
| 108-10-1   | 4-Methyl-2-pentanone        | 5                    | U |
| 591-78-6   | 2-Hexanone                  | 5                    | U |
| 127-18-4   | Tetrachloroethene           | 1                    | U |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 1                    | U |
| 106-93-4   | 1,2-Dibromoethane           | 1                    | U |
| 108-88-3   | Toluene                     | 1                    | U |
| 108-90-7   | Chlorobenzene               | 1                    | U |
| 100-41-4   | Ethylbenzene                | 1                    | U |
| 100-42-5   | Styrene                     | 1                    | U |
| 1330-20-7  | Xylenes (total)             | 1                    | U |
| 541-73-1   | 1,3-Dichlorobenzene         | 1                    | U |
| 106-46-7   | 1,4-Dichlorobenzene         | 1                    | U |
| 95-50-1    | 1,2-Dichlorobenzene         | 1                    | U |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | 1                    | U |
| 120-82-1   | 1,2,4-Trichlorobenzene      | 1                    | U |

1LCE  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ECFN8

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004

Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: E00FL

Lab Sample ID: 6066.008      Date Received: 05/05/00

Lab File ID: E0885      Date Analyzed: 05/12/00

Purge Volume: 20 (mL)      Dilution Factor: 1.0

GC Column: DB-624      ID: 0.53 (mm) Length: 60 (m)

Number TICs found: 2

| CAS NUMBER     | COMPOUND NAME          | RT   | EST. CONC.<br>(ug/L) | Q  |
|----------------|------------------------|------|----------------------|----|
| 1. 000593-70-4 | Methane, chlorofluoro- | 3.22 | 3                    | JN |
| 2. 000060-29-7 | Ethyl ether            | 5.16 | 6                    | JN |
| 3.             |                        |      |                      |    |
| 4.             |                        |      |                      |    |
| 5.             |                        |      |                      |    |
| 6.             |                        |      |                      |    |
| 7.             |                        |      |                      |    |
| 8.             |                        |      |                      |    |
| 9.             |                        |      |                      |    |
| 10.            |                        |      |                      |    |
| 11.            |                        |      |                      |    |
| 12.            |                        |      |                      |    |
| 13.            |                        |      |                      |    |
| 14.            |                        |      |                      |    |
| 15.            |                        |      |                      |    |
| 16.            |                        |      |                      |    |
| 17.            |                        |      |                      |    |
| 18.            |                        |      |                      |    |
| 19.            |                        |      |                      |    |
| 20.            |                        |      |                      |    |
| 21.            |                        |      |                      |    |
| 22.            |                        |      |                      |    |
| 23.            |                        |      |                      |    |
| 24.            |                        |      |                      |    |
| 25.            |                        |      |                      |    |
| 26.            |                        |      |                      |    |
| 27.            |                        |      |                      |    |
| 28.            |                        |      |                      |    |
| 29.            |                        |      |                      |    |
| 30.            |                        |      |                      |    |

1LCA  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ECFN9

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004  
 Lab Code: PDP Case No.: 27986 SAS No.: \_\_\_\_\_ SDG No.: E00FL  
 Lab Sample ID: 6066.009 Date Received: 05/05/00  
 Lab File ID: E0886 Date Analyzed: 05/12/00  
 Purge Volume: 20 (mL) Dilution Factor: 1.0  
 GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

| CAS NO.    | COMPOUND                    | CONCENTRATION<br>(ug/L) | Q |
|------------|-----------------------------|-------------------------|---|
| 74-87-3    | Chloromethane               | 1                       | U |
| 74-83-9    | Bromomethane                | 1                       | U |
| 75-01-4    | Vinyl chloride              | 1                       | U |
| 75-00-3    | Chloroethane                | 1                       | U |
| 75-09-2    | Methylene chloride          | 2                       |   |
| 67-64-1    | Acetone                     | 5                       | U |
| 75-15-0    | Carbon disulfide            | 1                       | U |
| 75-35-4    | 1,1-Dichloroethene          | 1                       | U |
| 75-34-3    | 1,1-Dichloroethane          | 1                       | U |
| 156-59-2   | cis-1,2-Dichloroethene      | 1                       | U |
| 156-60-5   | trans-1,2-Dichloroethene    | 1                       | U |
| 67-66-3    | Chloroform                  | 1                       | U |
| 107-06-2   | 1,2-Dichloroethane          | 1                       | U |
| 78-93-3    | 2-Butanone                  | 5                       | U |
| 74-97-5    | Bromochloromethane          | 1                       | U |
| 71-55-6    | 1,1,1-Trichloroethane       | 1                       | U |
| 56-23-5    | Carbon tetrachloride        | 1                       | U |
| 75-27-4    | Bromodichloromethane        | 1                       | U |
| 78-87-5    | 1,2-Dichloropropane         | 1                       | U |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1                       | U |
| 79-01-6    | Trichloroethene             | 1                       | U |
| 124-48-1   | Dibromochloromethane        | 1                       | U |
| 79-00-5    | 1,1,2-Trichloroethane       | 1                       | U |
| 71-43-2    | Benzene                     | 1                       | U |
| 10061-02-6 | trans-1,3-Dichloropropene   | 1                       | U |
| 75-25-2    | Bromoform                   | 1                       | U |
| 108-10-1   | 4-Methyl-2-pentanone        | 5                       | U |
| 591-78-6   | 2-Hexanone                  | 5                       | U |
| 127-18-4   | Tetrachloroethene           | 1                       | U |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 1                       | U |
| 106-93-4   | 1,2-Dibromoethane           | 1                       | U |
| 108-88-3   | Toluene                     | 1                       | U |
| 108-90-7   | Chlorobenzene               | 1                       | U |
| 100-41-4   | Ethylbenzene                | 1                       | U |
| 100-42-5   | Styrene                     | 1                       | U |
| 1330-20-7  | Xylenes (total)             | 1                       | U |
| 541-73-1   | 1,3-Dichlorobenzene         | 1                       | U |
| 106-46-7   | 1,4-Dichlorobenzene         | 1                       | U |
| 95-50-1    | 1,2-Dichlorobenzene         | 1                       | U |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | 1                       | U |
| 120-82-1   | 1,2,4-Trichlorobenzene      | 1                       | U |

1LCE  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ECFN9

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004

Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: E00FL

Lab Sample ID: 6066.009      Date Received: 05/05/00

Lab File ID: E0886      Date Analyzed: 05/12/00

Purge Volume: 20 (mL)      Dilution Factor: 1.0

GC Column: DB-624      ID: 0.53 (mm) Length: 60 (m)

Number TICs found: 0

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC.<br>(ug/L) | Q |
|------------|---------------|----|----------------------|---|
| 1.         |               |    |                      |   |
| 2.         |               |    |                      |   |
| 3.         |               |    |                      |   |
| 4.         |               |    |                      |   |
| 5.         |               |    |                      |   |
| 6.         |               |    |                      |   |
| 7.         |               |    |                      |   |
| 8.         |               |    |                      |   |
| 9.         |               |    |                      |   |
| 10.        |               |    |                      |   |
| 11.        |               |    |                      |   |
| 12.        |               |    |                      |   |
| 13.        |               |    |                      |   |
| 14.        |               |    |                      |   |
| 15.        |               |    |                      |   |
| 16.        |               |    |                      |   |
| 17.        |               |    |                      |   |
| 18.        |               |    |                      |   |
| 19.        |               |    |                      |   |
| 20.        |               |    |                      |   |
| 21.        |               |    |                      |   |
| 22.        |               |    |                      |   |
| 23.        |               |    |                      |   |
| 24.        |               |    |                      |   |
| 25.        |               |    |                      |   |
| 26.        |               |    |                      |   |
| 27.        |               |    |                      |   |
| 28.        |               |    |                      |   |
| 29.        |               |    |                      |   |
| 30.        |               |    |                      |   |

1LCA  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ECFP1

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004  
 Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: E00FL  
 Lab Sample ID: 6066.012      Date Received: 05/05/00  
 Lab File ID: E0889      Date Analyzed: 05/12/00  
 Purge Volume: 20 (mL)      Dilution Factor: 1.0  
 GC Column: DB-624      ID: 0.53 (mm) Length: 60 (m)

| CAS NO.    | COMPOUND                    | CONCENTRATION (ug/L) | Q |
|------------|-----------------------------|----------------------|---|
| 74-87-3    | Chloromethane               | 1                    | U |
| 74-83-9    | Bromomethane                | 1                    | U |
| 75-01-4    | Vinyl chloride              | 1                    | U |
| 75-00-3    | Chloroethane                | 1                    | U |
| 75-09-2    | Methylene chloride          | 2                    | U |
| 67-64-1    | Acetone                     | 5                    | U |
| 75-15-0    | Carbon disulfide            | 1                    | U |
| 75-35-4    | 1,1-Dichloroethene          | 1                    | U |
| 75-34-3    | 1,1-Dichloroethane          | 1                    | U |
| 156-59-2   | cis-1,2-Dichloroethene      | 1                    | U |
| 156-60-5   | trans-1,2-Dichloroethene    | 1                    | U |
| 67-66-3    | Chloroform                  | 1                    | U |
| 107-06-2   | 1,2-Dichloroethane          | 1                    | U |
| 78-93-3    | 2-Butanone                  | 5                    | U |
| 74-97-5    | Bromochloromethane          | 1                    | U |
| 71-55-6    | 1,1,1-Trichloroethane       | 1                    | U |
| 56-23-5    | Carbon tetrachloride        | 1                    | U |
| 75-27-4    | Bromodichloromethane        | 1                    | U |
| 78-87-5    | 1,2-Dichloropropane         | 1                    | U |
| 10061-01-5 | cis-1,3-Dichloropropene     | 1                    | U |
| 79-01-6    | Trichloroethene             | 1                    | U |
| 124-48-1   | Dibromochloromethane        | 1                    | U |
| 79-00-5    | 1,1,2-Trichloroethane       | 1                    | U |
| 71-43-2    | Benzene                     | 1                    | U |
| 10061-02-6 | trans-1,3-Dichloropropene   | 1                    | U |
| 75-25-2    | Bromoform                   | 1                    | U |
| 108-10-1   | 4-Methyl-2-pentanone        | 5                    | U |
| 591-78-6   | 2-Hexanone                  | 5                    | U |
| 127-18-4   | Tetrachloroethene           | 1                    | U |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 1                    | U |
| 106-93-4   | 1,2-Dibromoethane           | 1                    | U |
| 108-88-3   | Toluene                     | 1                    | U |
| 108-90-7   | Chlorobenzene               | 1                    | U |
| 100-41-4   | Ethylbenzene                | 1                    | U |
| 100-42-5   | Styrene                     | 1                    | U |
| 1330-20-7  | Xylenes (total)             | 1                    | U |
| 541-73-1   | 1,3-Dichlorobenzene         | 1                    | U |
| 106-46-7   | 1,4-Dichlorobenzene         | 1                    | U |
| 95-50-1    | 1,2-Dichlorobenzene         | 1                    | U |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | 1                    | U |
| 120-82-1   | 1,2,4-Trichlorobenzene      | 1                    | U |

1LCE  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ECFP1

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004

Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: E00FL

Lab Sample ID: 6066.012      Date Received: 05/05/00

Lab File ID: E0889      Date Analyzed: 05/12/00

Purge Volume: 20 (mL)      Dilution Factor: 1.0

GC Column: DB-624      ID: 0.53 (mm) Length: 60 (m)

Number TICs found: 0

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC.<br>(ug/L) | Q |
|------------|---------------|----|----------------------|---|
| 1.         |               |    |                      |   |
| 2.         |               |    |                      |   |
| 3.         |               |    |                      |   |
| 4.         |               |    |                      |   |
| 5.         |               |    |                      |   |
| 6.         |               |    |                      |   |
| 7.         |               |    |                      |   |
| 8.         |               |    |                      |   |
| 9.         |               |    |                      |   |
| 10.        |               |    |                      |   |
| 11.        |               |    |                      |   |
| 12.        |               |    |                      |   |
| 13.        |               |    |                      |   |
| 14.        |               |    |                      |   |
| 15.        |               |    |                      |   |
| 16.        |               |    |                      |   |
| 17.        |               |    |                      |   |
| 18.        |               |    |                      |   |
| 19.        |               |    |                      |   |
| 20.        |               |    |                      |   |
| 21.        |               |    |                      |   |
| 22.        |               |    |                      |   |
| 23.        |               |    |                      |   |
| 24.        |               |    |                      |   |
| 25.        |               |    |                      |   |
| 26.        |               |    |                      |   |
| 27.        |               |    |                      |   |
| 28.        |               |    |                      |   |
| 29.        |               |    |                      |   |
| 30.        |               |    |                      |   |

1LCA  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VLCS65

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: E00FL

Lab Sample ID: FVLCS069

Date Received: \_\_\_\_\_

Lab File ID: F1143

Date Analyzed: 05/05/00

Purge Volume: 20 (mL)

Dilution Factor: 1.0

GC Column: DB-624

ID: 0.53 (mm) Length: 60 (m)

| CAS NO.    | COMPOUND                    | CONCENTRATION (ug/L) | Q |
|------------|-----------------------------|----------------------|---|
| 74-87-3    | Chloromethane               | 1                    | U |
| 74-83-9    | Bromomethane                | 1                    | U |
| 75-01-4    | Vinyl chloride              | 4                    |   |
| 75-00-3    | Chloroethane                | 1                    | U |
| 75-09-2    | Methylene chloride          | 2                    | U |
| 67-64-1    | Acetone                     | 5                    | U |
| 75-15-0    | Carbon disulfide            | 1                    | U |
| 75-35-4    | 1,1-Dichloroethene          | 1                    | U |
| 75-34-3    | 1,1-Dichloroethane          | 1                    | U |
| 156-59-2   | cis-1,2-Dichloroethene      | 1                    | U |
| 156-60-5   | trans-1,2-Dichloroethene    | 1                    | U |
| 67-66-3    | Chloroform                  | 1                    | U |
| 107-06-2   | 1,2-Dichloroethane          | 7                    |   |
| 78-93-3    | 2-Butanone                  | 5                    | U |
| 74-97-5    | Bromochloromethane          | 1                    | U |
| 71-55-6    | 1,1,1-Trichloroethane       | 1                    | U |
| 56-23-5    | Carbon tetrachloride        | 6                    |   |
| 75-27-4    | Bromodichloromethane        | 1                    | U |
| 78-87-5    | 1,2-Dichloropropane         | 6                    |   |
| 10061-01-5 | cis-1,3-Dichloropropene     | 6                    |   |
| 79-01-6    | Trichloroethene             | 6                    |   |
| 124-48-1   | Dibromochloromethane        | 1                    | U |
| 79-00-5    | 1,1,2-Trichloroethane       | 6                    |   |
| 71-43-2    | Benzene                     | 6                    |   |
| 10061-02-6 | trans-1,3-Dichloropropene   | 1                    | U |
| 75-25-2    | Bromoform                   | 7                    |   |
| 108-10-1   | 4-Methyl-2-pentanone        | 5                    | U |
| 591-78-6   | 2-Hexanone                  | 5                    | U |
| 127-18-4   | Tetrachloroethene           | 6                    |   |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 1                    | U |
| 106-93-4   | 1,2-Dibromoethane           | 6                    |   |
| 108-88-3   | Toluene                     | 1                    | U |
| 108-90-7   | Chlorobenzene               | 1                    | U |
| 100-41-4   | Ethylbenzene                | 1                    | U |
| 100-42-5   | Styrene                     | 1                    | U |
| 1330-20-7  | Xylenes (total)             | 1                    | U |
| 541-73-1   | 1,3-Dichlorobenzene         | 1                    | U |
| 106-46-7   | 1,4-Dichlorobenzene         | 6                    |   |
| 95-50-1    | 1,2-Dichlorobenzene         | 1                    | U |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | 1                    | U |
| 120-82-1   | 1,2,4-Trichlorobenzene      | 1                    | U |

1LCA  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VLCS66

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004  
 Lab Code: PDP Case No.: 27986 SAS No.: \_\_\_\_\_ SDG No.: E00FL  
 Lab Sample ID: FVLCS070 Date Received: \_\_\_\_\_  
 Lab File ID: F1165 Date Analyzed: 05/08/00  
 Purge Volume: 20 (mL) Dilution Factor: 1.0  
 GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

| CAS NO.    | COMPOUND                    | CONCENTRATION (ug/L) | Q |
|------------|-----------------------------|----------------------|---|
| 74-87-3    | Chloromethane               | 1                    | U |
| 74-83-9    | Bromomethane                | 1                    | U |
| 75-01-4    | Vinyl chloride              | 4                    |   |
| 75-00-3    | Chloroethane                | 1                    | U |
| 75-09-2    | Methylene chloride          | 2                    | U |
| 67-64-1    | Acetone                     | 5                    | U |
| 75-15-0    | Carbon disulfide            | 1                    | U |
| 75-35-4    | 1,1-Dichloroethene          | 1                    | U |
| 75-34-3    | 1,1-Dichloroethane          | 1                    | U |
| 156-59-2   | cis-1,2-Dichloroethene      | 1                    | U |
| 156-60-5   | trans-1,2-Dichloroethene    | 1                    | U |
| 67-66-3    | Chloroform                  | 1                    | U |
| 107-06-2   | 1,2-Dichloroethane          | 7                    |   |
| 78-93-3    | 2-Butanone                  | 5                    | U |
| 74-97-5    | Bromochloromethane          | 1                    | U |
| 71-55-6    | 1,1,1-Trichloroethane       | 1                    | U |
| 56-23-5    | Carbon tetrachloride        | 6                    |   |
| 75-27-4    | Bromodichloromethane        | 1                    | U |
| 78-87-5    | 1,2-Dichloropropane         | 6                    |   |
| 10061-01-5 | cis-1,3-Dichloropropene     | 6                    |   |
| 79-01-6    | Trichloroethene             | 6                    |   |
| 124-48-1   | Dibromochloromethane        | 1                    | U |
| 79-00-5    | 1,1,2-Trichloroethane       | 6                    |   |
| 71-43-2    | Benzene                     | 6                    |   |
| 10061-02-6 | trans-1,3-Dichloropropene   | 1                    | U |
| 75-25-2    | Bromoform                   | 7                    |   |
| 108-10-1   | 4-Methyl-2-pentanone        | 5                    | U |
| 591-78-6   | 2-Hexanone                  | 5                    | U |
| 127-18-4   | Tetrachloroethene           | 6                    |   |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 1                    | U |
| 106-93-4   | 1,2-Dibromoethane           | 5                    |   |
| 108-88-3   | Toluene                     | 1                    | U |
| 108-90-7   | Chlorobenzene               | 1                    | U |
| 100-41-4   | Ethylbenzene                | 1                    | U |
| 100-42-5   | Styrene                     | 1                    | U |
| 1330-20-7  | Xylenes (total)             | 1                    | U |
| 541-73-1   | 1,3-Dichlorobenzene         | 1                    | U |
| 106-46-7   | 1,4-Dichlorobenzene         | 6                    |   |
| 95-50-1    | 1,2-Dichlorobenzene         | 1                    | U |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | 1                    | U |
| 120-82-1   | 1,2,4-Trichlorobenzene      | 1                    | U |

1LCA  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VLCS02

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: E00FL

Lab Sample ID: EVLCS02

Date Received: \_\_\_\_\_

Lab File ID: E0866

Date Analyzed: 05/11/00

Purge Volume: 20 (mL)

Dilution Factor: 1.0

GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

| CAS NO.    | COMPOUND                    | CONCENTRATION (ug/L) | Q |
|------------|-----------------------------|----------------------|---|
| 74-87-3    | Chloromethane               | 1                    | U |
| 74-83-9    | Bromomethane                | 1                    | U |
| 75-01-4    | Vinyl chloride              | 5                    |   |
| 75-00-3    | Chloroethane                | 1                    | U |
| 75-09-2    | Methylene chloride          | 2                    | U |
| 67-64-1    | Acetone                     | 5                    | U |
| 75-15-0    | Carbon disulfide            | 1                    | U |
| 75-35-4    | 1,1-Dichloroethene          | 1                    | U |
| 75-34-3    | 1,1-Dichloroethane          | 1                    | U |
| 156-59-2   | cis-1,2-Dichloroethene      | 1                    | U |
| 156-60-5   | trans-1,2-Dichloroethene    | 1                    | U |
| 67-66-3    | Chloroform                  | 1                    | U |
| 107-06-2   | 1,2-Dichloroethane          | 5                    |   |
| 78-93-3    | 2-Butanone                  | 5                    | U |
| 74-97-5    | Bromochloromethane          | 1                    | U |
| 71-55-6    | 1,1,1-Trichloroethane       | 1                    | U |
| 56-23-5    | Carbon tetrachloride        | 5                    |   |
| 75-27-4    | Bromodichloromethane        | 1                    | U |
| 78-87-5    | 1,2-Dichloropropane         | 5                    |   |
| 10061-01-5 | cis-1,3-Dichloropropene     | 5                    |   |
| 79-01-6    | Trichloroethene             | 5                    |   |
| 124-48-1   | Dibromochloromethane        | 1                    | U |
| 79-00-5    | 1,1,2-Trichloroethane       | 5                    |   |
| 71-43-2    | Benzene                     | 5                    |   |
| 10061-02-6 | trans-1,3-Dichloropropene   | 1                    | U |
| 75-25-2    | Bromoform                   | 5                    |   |
| 108-10-1   | 4-Methyl-2-pentanone        | 5                    | U |
| 591-78-6   | 2-Hexanone                  | 5                    | U |
| 127-18-4   | Tetrachloroethene           | 5                    |   |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 1                    | U |
| 106-93-4   | 1,2-Dibromoethane           | 5                    |   |
| 108-88-3   | Toluene                     | 1                    | U |
| 108-90-7   | Chlorobenzene               | 1                    | U |
| 100-41-4   | Ethylbenzene                | 1                    | U |
| 100-42-5   | Styrene                     | 1                    | U |
| 1330-20-7  | Xylenes (total)             | 1                    | U |
| 541-73-1   | 1,3-Dichlorobenzene         | 5                    |   |
| 106-46-7   | 1,4-Dichlorobenzene         | 5                    |   |
| 95-50-1    | 1,2-Dichlorobenzene         | 1                    | U |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | 1                    | U |
| 120-82-1   | 1,2,4-Trichlorobenzene      | 1                    | U |

1LCA  
 LOW CONC. WATER VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VLCS03

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004  
 Lab Code: PDP Case No.: 27986 SAS No.: \_\_\_\_\_ SDG No.: E00FL  
 Lab Sample ID: EVLCS03 Date Received: \_\_\_\_\_  
 Lab File ID: E0883 Date Analyzed: 05/12/00  
 Purge Volume: 20 (mL) Dilution Factor: 1.0  
 GC Column: DB-624 ID: 0.53 (mm) Length: 60 (m)

| CAS NO.    | COMPOUND                    | CONCENTRATION<br>(ug/L) | Q |
|------------|-----------------------------|-------------------------|---|
| 74-87-3    | Chloromethane               | 1                       | U |
| 74-83-9    | Bromomethane                | 1                       | U |
| 75-01-4    | Vinyl chloride              | 4                       |   |
| 75-00-3    | Chloroethane                | 1                       | U |
| 75-09-2    | Methylene chloride          | 2                       | U |
| 67-64-1    | Acetone                     | 5                       | U |
| 75-15-0    | Carbon disulfide            | 1                       | U |
| 75-35-4    | 1,1-Dichloroethene          | 1                       | U |
| 75-34-3    | 1,1-Dichloroethane          | 1                       | U |
| 156-59-2   | cis-1,2-Dichloroethene      | 1                       | U |
| 156-60-5   | trans-1,2-Dichloroethene    | 1                       | U |
| 67-66-3    | Chloroform                  | 1                       | U |
| 107-06-2   | 1,2-Dichloroethane          | 5                       |   |
| 78-93-3    | 2-Butanone                  | 5                       | U |
| 74-97-5    | Bromochloromethane          | 1                       | U |
| 71-55-6    | 1,1,1-Trichloroethane       | 1                       | U |
| 56-23-5    | Carbon tetrachloride        | 5                       |   |
| 75-27-4    | Bromodichloromethane        | 1                       | U |
| 78-87-5    | 1,2-Dichloropropane         | 5                       |   |
| 10061-01-5 | cis-1,3-Dichloropropene     | 5                       |   |
| 79-01-6    | Trichloroethene             | 5                       |   |
| 124-48-1   | Dibromochloromethane        | 1                       | U |
| 79-00-5    | 1,1,2-Trichloroethane       | 5                       |   |
| 71-43-2    | Benzene                     | 5                       |   |
| 10061-02-6 | trans-1,3-Dichloropropene   | 1                       | U |
| 75-25-2    | Bromoform                   | 5                       |   |
| 108-10-1   | 4-Methyl-2-pentanone        | 5                       | U |
| 591-78-6   | 2-Hexanone                  | 5                       | U |
| 127-18-4   | Tetrachloroethene           | 5                       |   |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   | 1                       | U |
| 106-93-4   | 1,2-Dibromoethane           | 5                       |   |
| 108-88-3   | Toluene                     | 1                       | U |
| 108-90-7   | Chlorobenzene               | 1                       | U |
| 100-41-4   | Ethylbenzene                | 1                       | U |
| 100-42-5   | Styrene                     | 1                       | U |
| 1330-20-7  | Xylenes (total)             | 1                       | U |
| 541-73-1   | 1,3-Dichlorobenzene         | 5                       |   |
| 106-46-7   | 1,4-Dichlorobenzene         | 5                       |   |
| 95-50-1    | 1,2-Dichlorobenzene         | 1                       | U |
| 96-12-8    | 1,2-Dibromo-3-chloropropane | 1                       | U |
| 120-82-1   | 1,2,4-Trichlorobenzene      | 1                       | U |

2LCB  
 LOW CONC. WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: E00FL

|    | EPA<br>SAMPLE NO. | NBZ<br>%REC # | FBP<br>%REC # | TPH<br>%REC # | PHL<br>%REC # | 2FP<br>%REC # | TBP<br>%REC # | OTHER | TOT<br>OUT |
|----|-------------------|---------------|---------------|---------------|---------------|---------------|---------------|-------|------------|
| 01 | SBLK44            | 85            | 82            | 104           | 85            | 89            | 89            |       | 0          |
| 02 | SLCS73            | 76            | 74            | 100           | 81            | 79            | 89            |       | 0          |
| 03 | E00FF             | 91            | 66            | 22            | 94            | 84            | 90            |       | 0          |
| 04 | E00FG             | 83            | 82            | 96            | 71            | 71            | 95            |       | 0          |
| 05 | E00FH             | 86            | 83            | 98            | 90            | 79            | 94            |       | 0          |
| 06 | E00FJ             | 82            | 80            | 93            | 77            | 70            | 88            |       | 0          |
| 07 | E00FK             | 81            | 71            | 93            | 79            | 79            | 82            |       | 0          |
| 08 | E00F4             | 88            | 81            | 33            | 95            | 91            | 93            |       | 0          |
| 09 | SBLK47            | 82            | 70            | 91            | 80            | 82            | 85            |       | 0          |
| 10 | SLCS76            | 78            | 72            | 94            | 80            | 72            | 83            |       | 0          |
| 11 | E00F5             | 79            | 71            | 90            | 67            | 74            | 88            |       | 0          |
| 12 | ECFN2             | 67            | 67            | 78            | 70            | 63            | 86            |       | 0          |
| 13 | ECFN3             | 66            | 60            | 71            | 70            | 64            | 82            |       | 0          |
| 14 | ECFN4             | 63            | 60            | 79            | 63            | 63            | 77            |       | 0          |
| 15 | ECFN5             | 84            | 71            | 52            | 91            | 76            | 88            |       | 0          |
| 16 | ECFN6             | 70            | 66            | 41            | 63            | 63            | 82            |       | 0          |
| 17 | ECFN8             | 67            | 62            | 82            | 62            | 64            | 84            |       | 0          |
| 18 | E01TP             | 95            | 84            | 85            | 79            | 96            | 97            |       | 0          |
| 19 | E01TQ             | 89            | 83            | 92            | 81            | 93            | 92            |       | 0          |
| 20 | ECFP1             | 76            | 72            | 90            | 72            | 75            | 90            |       | 0          |
| 21 |                   |               |               |               |               |               |               |       |            |
| 22 |                   |               |               |               |               |               |               |       |            |
| 23 |                   |               |               |               |               |               |               |       |            |
| 24 |                   |               |               |               |               |               |               |       |            |
| 25 |                   |               |               |               |               |               |               |       |            |
| 26 |                   |               |               |               |               |               |               |       |            |
| 27 |                   |               |               |               |               |               |               |       |            |
| 28 |                   |               |               |               |               |               |               |       |            |
| 29 |                   |               |               |               |               |               |               |       |            |
| 30 |                   |               |               |               |               |               |               |       |            |

QC LIMITS  
%REC

NBZ = Nitrobenzene-d5 (23-120)  
 FBP = 2-Fluorobiphenyl (30-115)  
 TPH = Terphenyl-d14 (18-140)  
 PHL = Phenol-d5 (15-115)  
 2FP = 2-Fluorophenol (15-121)  
 TBP = 2,4,6-Tribromophenol (15-130)

# Column to be used to flag recovery values.  
 \* Values outside of contract required QC limits.  
 D Surrogate diluted out.

3LCB  
 LOW CONC. WATER SEMIVOLATILE LAB CONTROL SAMPLE RECOVERY

EPA SAMPLE NO.

SLCS73

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004

Lab Code: PDP                      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: E00FL

Lab Sample ID: SVOL605                      LCS Lot No.:

Lab File ID: H1031                      Date Extracted: 05/05/00

LCS Aliquot: 1000                      (uL)                      Date Analyzed: 05/16/00

Concentrated Extract Volume: 1000      (uL)                      Dilution Factor: 1.0

Injection Volume: 1.0                      (uL)

| COMPOUND                   | AMOUNT<br>ADDED<br>(ng) | AMOUNT<br>RECOVERED<br>(ng) | %REC # | QC<br>LIMITS |
|----------------------------|-------------------------|-----------------------------|--------|--------------|
| Phenol_____                | 40000                   | 30000                       | 75     | 40-120       |
| bis(2-Chloroethyl)ether__  | 20000                   | 16000                       | 80     | 50-110       |
| 2-Chlorophenol_____        | 40000                   | 30000                       | 75     | 50-110       |
| N-Nitroso-di-n-propylamine | 20000                   | 16000                       | 80     | 30-110       |
| Hexachloroethane_____      | 20000                   | 10000                       | 50     | 20-110       |
| Isophorone_____            | 20000                   | 12000                       | 60     | 50-110       |
| Naphthalene_____           | 20000                   | 15000                       | 75     | 30-110       |
| 4-Chloroaniline_____       | 40000                   | 22000                       | 55     | 10-120       |
| 2,4,6-Trichlorophenol_____ | 40000                   | 32000                       | 80     | 40-120       |
| 2,4-Dinitrotoluene_____    | 20000                   | 11000                       | 55     | 30-120       |
| Diethylphthalate_____      | 20000                   | 14000                       | 70     | 50-120       |
| N-Nitrosodiphenylamine__   | 20000                   | 10000                       | 50     | 30-110       |
| Hexachlorobenzene_____     | 20000                   | 12000                       | 60     | 40-120       |
| Benzo(a)pyrene_____        | 20000                   | 16000                       | 80     | 50-120       |

# Column to be used to flag LCS recovery with an asterisk.

\* Values outside of QC limits.

LCS Recovery: 0                      outside limits out of 14 total.

COMMENTS: \_\_\_\_\_  
 \_\_\_\_\_

3LCB  
 LOW CONC. WATER SEMIVOLATILE LAB CONTROL SAMPLE RECOVERY

EPA SAMPLE NO.

SLCS76

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: E00FL

Lab Sample ID: SVOL608

LCS Lot No.:

Lab File ID: H1039

Date Extracted: 05/09/00

LCS Aliquot: 1000 (uL)

Date Analyzed: 05/16/00

Concentrated Extract Volume: 1000 (uL)

Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

| COMPOUND                    | AMOUNT<br>ADDED<br>(ng) | AMOUNT<br>RECOVERED<br>(ng) | %REC # | QC<br>LIMITS |
|-----------------------------|-------------------------|-----------------------------|--------|--------------|
| Phenol_____                 | 40000                   | 30000                       | 75     | 40-120       |
| bis(2-Chloroethyl) ether__  | 20000                   | 17000                       | 85     | 50-110       |
| 2-Chlorophenol_____         | 40000                   | 30000                       | 75     | 50-110       |
| N-Nitroso-di-n-propylamine  | 20000                   | 19000                       | 95     | 30-110       |
| Hexachloroethane_____       | 20000                   | 10000                       | 50     | 20-110       |
| Isophorone_____             | 20000                   | 11000                       | 55     | 50-110       |
| Naphthalene_____            | 20000                   | 15000                       | 75     | 30-110       |
| 4-Chloroaniline_____        | 40000                   | 27000                       | 68     | 10-120       |
| 2,4,6-Trichlorophenol_____  | 40000                   | 30000                       | 75     | 40-120       |
| 2,4-Dinitrotoluene_____     | 20000                   | 11000                       | 55     | 30-120       |
| Diethylphthalate_____       | 20000                   | 13000                       | 65     | 50-120       |
| N-Nitrosodiphenylamine_____ | 20000                   | 12000                       | 60     | 30-110       |
| Hexachlorobenzene_____      | 20000                   | 12000                       | 60     | 40-120       |
| Benzo(a)pyrene_____         | 20000                   | 15000                       | 75     | 50-120       |

# Column to be used to flag LCS recovery with an asterisk.

\* Values outside of QC limits.

LCS Recovery: 0 outside limits out of 14 total.

COMMENTS: \_\_\_\_\_  
 \_\_\_\_\_

4LCB  
 LOW CONC. WATER SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLK44

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: E00FL

Lab Sample ID: SVOB717

Date Extracted: 05/05/00

Lab File ID: H1030

Date Analyzed: 05/16/00

Instrument ID: H-HP5973

Time Analyzed: 1311

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND LCS:

|    | EPA<br>SAMPLE NO. | LAB<br>SAMPLE ID | LAB<br>FILE ID | DATE<br>ANALYZED |
|----|-------------------|------------------|----------------|------------------|
| 01 | SLCS73            | SVOL605          | H1031          | 05/16/00         |
| 02 | E00FF             | 6050.003         | H1032          | 05/16/00         |
| 03 | E00FG             | 6050.004         | H1033          | 05/16/00         |
| 04 | E00FH             | 6050.005         | H1034          | 05/16/00         |
| 05 | E00FJ             | 6050.006         | H1035          | 05/16/00         |
| 06 | E00FK             | 6050.007         | H1036          | 05/16/00         |
| 07 | E00F4             | 6050.008         | H1037          | 05/16/00         |
| 08 |                   |                  |                |                  |
| 09 |                   |                  |                |                  |
| 10 |                   |                  |                |                  |
| 11 |                   |                  |                |                  |
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| 27 |                   |                  |                |                  |
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| 29 |                   |                  |                |                  |
| 30 |                   |                  |                |                  |

COMMENTS:

\_\_\_\_\_

4LCB  
 LOW CONC. WATER SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLK47

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: E00FL

Lab Sample ID: SVOB720

Date Extracted: 05/09/00

Lab File ID: H1038

Date Analyzed: 05/16/00

Instrument ID: H-HP5973

Time Analyzed: 1917

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES AND LCS:

|    | EPA<br>SAMPLE NO. | LAB<br>SAMPLE ID | LAB<br>FILE ID | DATE<br>ANALYZED |
|----|-------------------|------------------|----------------|------------------|
| 01 | SLCS76            | SVOL608          | H1039          | 05/16/00         |
| 02 | E00F5             | 6066.001         | H1040          | 05/16/00         |
| 03 | ECFN2             | 6066.003         | H1041          | 05/16/00         |
| 04 | ECFN3             | 6066.004         | H1042          | 05/16/00         |
| 05 | ECFN4             | 6066.005         | H1043          | 05/16/00         |
| 06 | ECFN5             | 6066.006         | H1044          | 05/16/00         |
| 07 | ECFN6             | 6066.007         | H1047          | 05/17/00         |
| 08 | ECFN8             | 6066.008         | H1048          | 05/17/00         |
| 09 | E01TP             | 6066.010         | H1049          | 05/17/00         |
| 10 | E01TQ             | 6066.011         | H1050          | 05/17/00         |
| 11 | ECFP1             | 6066.012         | H1051          | 05/17/00         |
| 12 |                   |                  |                |                  |
| 13 |                   |                  |                |                  |
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| 30 |                   |                  |                |                  |

COMMENTS:

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1LCB  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK44

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004  
 Lab Code: PDP Case No.: 27986 SAS No.: \_\_\_\_\_ SDG No.: E00FL  
 Lab Sample ID: SVOB717 Date Received: \_\_\_\_\_  
 Lab File ID: H1030 Date Extracted: 05/05/00  
 Sample Volume: 1000 (mL) Date Analyzed: 05/16/00  
 Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0  
 Injection Volume: 1.0 (uL)

| CAS NO.  | COMPOUND                     | CONCENTRATION<br>(ug/L) | Q |
|----------|------------------------------|-------------------------|---|
| 108-95-2 | Phenol                       | 5                       | U |
| 111-44-4 | bis(2-Chloroethyl) ether     | 5                       | U |
| 95-57-8  | 2-Chlorophenol               | 5                       | U |
| 95-48-7  | 2-Methylphenol               | 5                       | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 5                       | U |
| 106-44-5 | 4-Methylphenol               | 5                       | U |
| 621-64-7 | N-Nitroso-di-n-propylamine   | 5                       | U |
| 67-72-1  | Hexachloroethane             | 5                       | U |
| 98-95-3  | Nitrobenzene                 | 5                       | U |
| 78-59-1  | Isophorone                   | 5                       | U |
| 88-75-5  | 2-Nitrophenol                | 5                       | U |
| 105-67-9 | 2,4-Dimethylphenol           | 5                       | U |
| 111-91-1 | bis(2-Chloroethoxy)methane   | 5                       | U |
| 120-83-2 | 2,4-Dichlorophenol           | 5                       | U |
| 91-20-3  | Naphthalene                  | 5                       | U |
| 106-47-8 | 4-Chloroaniline              | 5                       | U |
| 87-68-3  | Hexachlorobutadiene          | 5                       | U |
| 59-50-7  | 4-Chloro-3-methylphenol      | 5                       | U |
| 91-57-6  | 2-Methylnaphthalene          | 5                       | U |
| 77-47-4  | Hexachlorocyclopentadiene    | 5                       | U |
| 88-06-2  | 2,4,6-Trichlorophenol        | 5                       | U |
| 95-95-4  | 2,4,5-Trichlorophenol        | 20                      | U |
| 91-58-7  | 2-Chloronaphthalane          | 5                       | U |
| 88-74-4  | 2-Nitroaniline               | 20                      | U |
| 131-11-3 | Dimethylphthalate            | 5                       | U |
| 208-96-8 | Acenaphthylene               | 5                       | U |
| 606-20-2 | 2,6-Dinitrotoluene           | 5                       | U |
| 99-09-2  | 3-Nitroaniline               | 20                      | U |
| 83-32-9  | Acenaphthene                 | 5                       | U |

1LCC  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK44

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004  
 Lab Code: PDP Case No.: 27986 SAS No.: \_\_\_\_\_ SDG No.: E00FL  
 Lab Sample ID: SVOB717 Date Received: \_\_\_\_\_  
 Lab File ID: H1030 Date Extracted: 05/05/00  
 Sample Volume: 1000 (mL) Date Analyzed: 05/16/00  
 Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0  
 Injection Volume: 1 (uL)

| CAS NO.   | COMPOUND                   | CONCENTRATION<br>(ug/L) | Q |
|-----------|----------------------------|-------------------------|---|
| 51-28-5   | 2,4-Dinitrophenol          | 20                      | U |
| 100-02-7  | 4-Nitrophenol              | 20                      | U |
| 132-64-9  | Dibenzofuran               | 5                       | U |
| 121-14-2  | 2,4-Dinitrotoluene         | 5                       | U |
| 84-66-2   | Diethylphthalate           | 5                       | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 5                       | U |
| 86-73-7   | Fluorene                   | 5                       | U |
| 100-01-6  | 4-Nitroaniline             | 20                      | U |
| 534-52-1  | 4,6-Dinitro-2-methylphenol | 20                      | U |
| 86-30-6   | N-Nitrosodiphenylamine (1) | 5                       | U |
| 101-55-3  | 4-Bromophenyl-phenylether  | 5                       | U |
| 118-74-1  | Hexachlorobenzene          | 5                       | U |
| 87-86-5   | Pentachlorophenol          | 20                      | U |
| 85-01-8   | Phenanthrene               | 5                       | U |
| 120-12-7  | Anthracene                 | 5                       | U |
| 84-74-2   | Di-n-butylphthalate        | 5                       | U |
| 206-44-0  | Fluoranthene               | 5                       | U |
| 129-00-0  | Pyrene                     | 5                       | U |
| 85-68-7   | Butylbenzylphthalate       | 5                       | U |
| 91-94-1   | 3,3'-Dichlorobenzidine     | 5                       | U |
| 56-55-3   | Benzo(a)anthracene         | 5                       | U |
| 218-01-9  | Chrysene                   | 5                       | U |
| 117-81-7  | bis(2-Ethylhexyl)phthalate | 5                       | U |
| 117-84-0  | Di-n-octylphthalate        | 5                       | U |
| 205-99-2  | Benzo(b)fluoranthene       | 5                       | U |
| 207-08-9  | Benzo(k)fluoranthene       | 5                       | U |
| 50-32-8   | Benzo(a)pyrene             | 5                       | U |
| 193-39-5  | Indeno(1,2,3-cd)Pyrene     | 5                       | U |
| 53-70-3   | Dibenz(a,h)anthracene      | 5                       | U |
| 191-24-2  | Benzo(g,h,i)perylene       | 5                       | U |

(1) - Cannot be separated from Diphenylamine

1LCF  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SBLK44

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004

Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: E00FL

Lab Sample ID: SVOB717      Date Received: \_\_\_\_\_

Lab File ID: H1030      Date Extracted: 05/05/00

Sample Volume: 1000 (mL)      Date Analyzed: 05/16/00

Concentrated Extract Volume: 1000 (uL)      Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

Number TICs found: 0

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC.<br>(ug/L) | Q |
|------------|---------------|----|----------------------|---|
| 1.         |               |    |                      |   |
| 2.         |               |    |                      |   |
| 3.         |               |    |                      |   |
| 4.         |               |    |                      |   |
| 5.         |               |    |                      |   |
| 6.         |               |    |                      |   |
| 7.         |               |    |                      |   |
| 8.         |               |    |                      |   |
| 9.         |               |    |                      |   |
| 10.        |               |    |                      |   |
| 11.        |               |    |                      |   |
| 12.        |               |    |                      |   |
| 13.        |               |    |                      |   |
| 14.        |               |    |                      |   |
| 15.        |               |    |                      |   |
| 16.        |               |    |                      |   |
| 17.        |               |    |                      |   |
| 18.        |               |    |                      |   |
| 19.        |               |    |                      |   |
| 20.        |               |    |                      |   |
| 21.        |               |    |                      |   |
| 22.        |               |    |                      |   |
| 23.        |               |    |                      |   |
| 24.        |               |    |                      |   |
| 25.        |               |    |                      |   |
| 26.        |               |    |                      |   |
| 27.        |               |    |                      |   |
| 28.        |               |    |                      |   |
| 29.        |               |    |                      |   |
| 30.        |               |    |                      |   |

1LCB  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK47

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: E00FL

Lab Sample ID: SVOB720

Date Received: \_\_\_\_\_

Lab File ID: H1038

Date Extracted: 05/09/00

Sample Volume: 1000 (mL)

Date Analyzed: 05/16/00

Concentrated Extract Volume: 1000 (uL)

Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

| CAS NO.  | COMPOUND                     | CONCENTRATION<br>(ug/L) | Q |
|----------|------------------------------|-------------------------|---|
| 108-95-2 | Phenol                       | 5                       | U |
| 111-44-4 | bis(2-Chloroethyl) ether     | 5                       | U |
| 95-57-8  | 2-Chlorophenol               | 5                       | U |
| 95-48-7  | 2-Methylphenol               | 5                       | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 5                       | U |
| 106-44-5 | 4-Methylphenol               | 5                       | U |
| 621-64-7 | N-Nitroso-di-n-propylamine   | 5                       | U |
| 67-72-1  | Hexachloroethane             | 5                       | U |
| 98-95-3  | Nitrobenzene                 | 5                       | U |
| 78-59-1  | Isophorone                   | 5                       | U |
| 88-75-5  | 2-Nitrophenol                | 5                       | U |
| 105-67-9 | 2,4-Dimethylphenol           | 5                       | U |
| 111-91-1 | bis(2-Chloroethoxy)methane   | 5                       | U |
| 120-83-2 | 2,4-Dichlorophenol           | 5                       | U |
| 91-20-3  | Naphthalene                  | 5                       | U |
| 106-47-8 | 4-Chloroaniline              | 5                       | U |
| 87-68-3  | Hexachlorobutadiene          | 5                       | U |
| 59-50-7  | 4-Chloro-3-methylphenol      | 5                       | U |
| 91-57-6  | 2-Methylnaphthalene          | 5                       | U |
| 77-47-4  | Hexachlorocyclopentadiene    | 5                       | U |
| 88-06-2  | 2,4,6-Trichlorophenol        | 5                       | U |
| 95-95-4  | 2,4,5-Trichlorophenol        | 20                      | U |
| 91-58-7  | 2-Chloronaphthalene          | 5                       | U |
| 88-74-4  | 2-Nitroaniline               | 20                      | U |
| 131-11-3 | Dimethylphthalate            | 5                       | U |
| 208-96-8 | Acenaphthylene               | 5                       | U |
| 606-20-2 | 2,6-Dinitrotoluene           | 5                       | U |
| 99-09-2  | 3-Nitroaniline               | 20                      | U |
| 83-32-9  | Acenaphthene                 | 5                       | U |

1LCC  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK47

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004  
 Lab Code: PDP Case No.: 27986 SAS No.: \_\_\_\_\_ SDG No.: E00FL  
 Lab Sample ID: SVOB720 Date Received: \_\_\_\_\_  
 Lab File ID: H1038 Date Extracted: 05/09/00  
 Sample Volume: 1000 (mL) Date Analyzed: 05/16/00  
 Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0  
 Injection Volume: 1 (uL)

| CAS NO.   | COMPOUND                   | CONCENTRATION<br>(ug/L) | Q |
|-----------|----------------------------|-------------------------|---|
| 51-28-5   | 2,4-Dinitrophenol          | 20                      | U |
| 100-02-7  | 4-Nitrophenol              | 20                      | U |
| 132-64-9  | Dibenzofuran               | 5                       | U |
| 121-14-2  | 2,4-Dinitrotoluene         | 5                       | U |
| 84-66-2   | Diethylphthalate           | 5                       | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 5                       | U |
| 86-73-7   | Fluorene                   | 5                       | U |
| 100-01-6  | 4-Nitroaniline             | 20                      | U |
| 534-52-1  | 4,6-Dinitro-2-methylphenol | 20                      | U |
| 86-30-6   | N-Nitrosodiphenylamine (1) | 5                       | U |
| 101-55-3  | 4-Bromophenyl-phenylether  | 5                       | U |
| 118-74-1  | Hexachlorobenzene          | 5                       | U |
| 87-86-5   | Pentachlorophenol          | 20                      | U |
| 85-01-8   | Phenanthrene               | 5                       | U |
| 120-12-7  | Anthracene                 | 5                       | U |
| 84-74-2   | Di-n-butylphthalate        | 5                       | U |
| 206-44-0  | Fluoranthene               | 5                       | U |
| 129-00-0  | Pyrene                     | 5                       | U |
| 85-68-7   | Butylbenzylphthalate       | 5                       | U |
| 91-94-1   | 3,3'-Dichlorobenzidine     | 5                       | U |
| 56-55-3   | Benzo(a)anthracene         | 5                       | U |
| 218-01-9  | Chrysene                   | 5                       | U |
| 117-81-7  | bis(2-Ethylhexyl)phthalate | 5                       | U |
| 117-84-0  | Di-n-octylphthalate        | 5                       | U |
| 205-99-2  | Benzo(b)fluoranthene       | 5                       | U |
| 207-08-9  | Benzo(k)fluoranthene       | 5                       | U |
| 50-32-8   | Benzo(a)pyrene             | 5                       | U |
| 193-39-5  | Indeno(1,2,3-cd)Pyrene     | 5                       | U |
| 53-70-3   | Dibenz(a,h)anthracene      | 5                       | U |
| 191-24-2  | Benzo(g,h,i)perylene       | 5                       | U |

(1) - Cannot be separated from Diphenylamine

1LCF  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SBLK47

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004

Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: E00FL

Lab Sample ID: SVOB720      Date Received: \_\_\_\_\_

Lab File ID: H1038      Date Extracted: 05/09/00

Sample Volume: 1000 (mL)      Date Analyzed: 05/16/00

Concentrated Extract Volume: 1000 (uL)      Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

Number TICs found: 0

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC.<br>(ug/L) | Q |
|------------|---------------|----|----------------------|---|
| 1.         |               |    |                      |   |
| 2.         |               |    |                      |   |
| 3.         |               |    |                      |   |
| 4.         |               |    |                      |   |
| 5.         |               |    |                      |   |
| 6.         |               |    |                      |   |
| 7.         |               |    |                      |   |
| 8.         |               |    |                      |   |
| 9.         |               |    |                      |   |
| 10.        |               |    |                      |   |
| 11.        |               |    |                      |   |
| 12.        |               |    |                      |   |
| 13.        |               |    |                      |   |
| 14.        |               |    |                      |   |
| 15.        |               |    |                      |   |
| 16.        |               |    |                      |   |
| 17.        |               |    |                      |   |
| 18.        |               |    |                      |   |
| 19.        |               |    |                      |   |
| 20.        |               |    |                      |   |
| 21.        |               |    |                      |   |
| 22.        |               |    |                      |   |
| 23.        |               |    |                      |   |
| 24.        |               |    |                      |   |
| 25.        |               |    |                      |   |
| 26.        |               |    |                      |   |
| 27.        |               |    |                      |   |
| 28.        |               |    |                      |   |
| 29.        |               |    |                      |   |
| 30.        |               |    |                      |   |

1LCB  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00F4

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004

Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: E00FL

Lab Sample ID: 6050.008      Date Received: 05/03/00

Lab File ID: H1037      Date Extracted: 05/05/00

Sample Volume: 1000 (mL)      Date Analyzed: 05/16/00

Concentrated Extract Volume: 1000 (uL)      Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

| CAS NO.  | COMPOUND                     | CONCENTRATION<br>(ug/L) | Q |
|----------|------------------------------|-------------------------|---|
| 108-95-2 | Phenol                       | 5                       | U |
| 111-44-4 | bis(2-Chloroethyl) ether     | 5                       | U |
| 95-57-8  | 2-Chlorophenol               | 5                       | U |
| 95-48-7  | 2-Methylphenol               | 5                       | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 5                       | U |
| 106-44-5 | 4-Methylphenol               | 5                       | U |
| 621-64-7 | N-Nitroso-di-n-propylamine   | 5                       | U |
| 67-72-1  | Hexachloroethane             | 5                       | U |
| 98-95-3  | Nitrobenzene                 | 5                       | U |
| 78-59-1  | Isophorone                   | 5                       | U |
| 88-75-5  | 2-Nitrophenol                | 5                       | U |
| 105-67-9 | 2,4-Dimethylphenol           | 5                       | U |
| 111-91-1 | bis(2-Chloroethoxy)methane   | 5                       | U |
| 120-83-2 | 2,4-Dichlorophenol           | 5                       | U |
| 91-20-3  | Naphthalene                  | 5                       | U |
| 106-47-8 | 4-Chloroaniline              | 5                       | U |
| 87-68-3  | Hexachlorobutadiene          | 5                       | U |
| 59-50-7  | 4-Chloro-3-methylphenol      | 5                       | U |
| 91-57-6  | 2-Methylnaphthalene          | 5                       | U |
| 77-47-4  | Hexachlorocyclopentadiene    | 5                       | U |
| 88-06-2  | 2,4,6-Trichlorophenol        | 5                       | U |
| 95-95-4  | 2,4,5-Trichlorophenol        | 20                      | U |
| 91-58-7  | 2-Chloronaphthalane          | 5                       | U |
| 88-74-4  | 2-Nitroaniline               | 20                      | U |
| 131-11-3 | Dimethylphthalate            | 5                       | U |
| 208-96-8 | Acenaphthylene               | 5                       | U |
| 606-20-2 | 2,6-Dinitrotoluene           | 5                       | U |
| 99-09-2  | 3-Nitroaniline               | 20                      | U |
| 83-32-9  | Acenaphthene                 | 5                       | U |

1LCC  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00F4

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004  
 Lab Code: PDP Case No.: 27986 SAS No.: \_\_\_\_\_ SDG No.: E00FL  
 Lab Sample ID: 6050.008 Date Received: 05/03/00  
 Lab File ID: H1037 Date Extracted: 05/05/00  
 Sample Volume: 1000 (mL) Date Analyzed: 05/16/00  
 Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0  
 Injection Volume: 1 (uL)

| CAS NO.   | COMPOUND                   | CONCENTRATION<br>(ug/L) | Q |
|-----------|----------------------------|-------------------------|---|
| 51-28-5   | 2,4-Dinitrophenol          | 20                      | U |
| 100-02-7  | 4-Nitrophenol              | 20                      | U |
| 132-64-9  | Dibenzofuran               | 5                       | U |
| 121-14-2  | 2,4-Dinitrotoluene         | 5                       | U |
| 84-66-2   | Diethylphthalate           | 3                       | J |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 5                       | U |
| 86-73-7   | Fluorene                   | 5                       | U |
| 100-01-6  | 4-Nitroaniline             | 20                      | U |
| 534-52-1  | 4,6-Dinitro-2-methylphenol | 20                      | U |
| 86-30-6   | N-Nitrosodiphenylamine (1) | 5                       | U |
| 101-55-3  | 4-Bromophenyl-phenylether  | 5                       | U |
| 118-74-1  | Hexachlorobenzene          | 5                       | U |
| 87-86-5   | Pentachlorophenol          | 20                      | U |
| 85-01-8   | Phenanthrene               | 5                       | U |
| 120-12-7  | Anthracene                 | 5                       | U |
| 84-74-2   | Di-n-butylphthalate        | 5                       | U |
| 206-44-0  | Fluoranthene               | 5                       | U |
| 129-00-0  | Pyrene                     | 5                       | U |
| 85-68-7   | Butylbenzylphthalate       | 5                       | U |
| 91-94-1   | 3,3'-Dichlorobenzidine     | 5                       | U |
| 56-55-3   | Benzo(a)anthracene         | 5                       | U |
| 218-01-9  | Chrysene                   | 5                       | U |
| 117-81-7  | bis(2-Ethylhexyl)phthalate | 47                      |   |
| 117-84-0  | Di-n-octylphthalate        | 5                       | U |
| 205-99-2  | Benzo(b)fluoranthene       | 5                       | U |
| 207-08-9  | Benzo(k)fluoranthene       | 5                       | U |
| 50-32-8   | Benzo(a)pyrene             | 5                       | U |
| 193-39-5  | Indeno(1,2,3-cd)Pyrene     | 5                       | U |
| 53-70-3   | Dibenz(a,h)anthracene      | 5                       | U |
| 191-24-2  | Benzo(g,h,i)perylene       | 5                       | U |

(1) - Cannot be separated from Diphenylamine

1LCB  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00F5

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: E00FL

Lab Sample ID: 6066.001

Date Received: 05/05/00

Lab File ID: H1040

Date Extracted: 05/09/00

Sample Volume: 1000 (mL)

Date Analyzed: 05/16/00

Concentrated Extract Volume: 1000 (uL)

Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

| CAS NO.  | COMPOUND                     | CONCENTRATION<br>(ug/L) | Q |
|----------|------------------------------|-------------------------|---|
| 108-95-2 | Phenol                       | 5                       | U |
| 111-44-4 | bis(2-Chloroethyl)ether      | 5                       | U |
| 95-57-8  | 2-Chlorophenol               | 5                       | U |
| 95-48-7  | 2-Methylphenol               | 5                       | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 5                       | U |
| 106-44-5 | 4-Methylphenol               | 5                       | U |
| 621-64-7 | N-Nitroso-di-n-propylamine   | 5                       | U |
| 67-72-1  | Hexachloroethane             | 5                       | U |
| 98-95-3  | Nitrobenzene                 | 5                       | U |
| 78-59-1  | Isophorone                   | 5                       | U |
| 88-75-5  | 2-Nitrophenol                | 5                       | U |
| 105-67-9 | 2,4-Dimethylphenol           | 5                       | U |
| 111-91-1 | bis(2-Chloroethoxy)methane   | 5                       | U |
| 120-83-2 | 2,4-Dichlorophenol           | 5                       | U |
| 91-20-3  | Naphthalene                  | 5                       | U |
| 106-47-8 | 4-Chloroaniline              | 5                       | U |
| 87-68-3  | Hexachlorobutadiene          | 5                       | U |
| 59-50-7  | 4-Chloro-3-methylphenol      | 5                       | U |
| 91-57-6  | 2-Methylnaphthalene          | 5                       | U |
| 77-47-4  | Hexachlorocyclopentadiene    | 5                       | U |
| 88-06-2  | 2,4,6-Trichlorophenol        | 5                       | U |
| 95-95-4  | 2,4,5-Trichlorophenol        | 20                      | U |
| 91-58-7  | 2-Chloronaphthalene          | 5                       | U |
| 88-74-4  | 2-Nitroaniline               | 20                      | U |
| 131-11-3 | Dimethylphthalate            | 5                       | U |
| 208-96-8 | Acenaphthylene               | 5                       | U |
| 606-20-2 | 2,6-Dinitrotoluene           | 5                       | U |
| 99-09-2  | 3-Nitroaniline               | 20                      | U |
| 83-32-9  | Acenaphthene                 | 5                       | U |

**DEPARTMENT OF ENVIRONMENTAL MANAGEMENT**

INDIANAPOLIS

**OFFICE MEMORANDUM**

Date: March 26, 2002

To: Jessica Fliss  
Federal Programs Section

Thru: Wilfred Michira  
Steve Buckel

From: Sandra Roberts  
OLQ Chemistry Section

Subject: Analytical Results for Himco Dump  
Elkhart County, Elkhart, Indiana  
Site # 7500044  
Sampled: November 15 and 16, 2000  
Tested by Region 5 Central Regional Laboratories in Chicago, Illinois

The analytical data and results from Himco Dump groundwater wells and residential wells have been validated according to the quality criteria contained in Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW-846, Third Edition, Final Updates 1, 2, 2a, and 3, and EPA Drinking Water Standards, 2002. Based on the evaluation, it has been determined that the results are acceptable for use. Reasons that data are qualified as estimated or unusable are explained below. This memorandum should remain attached to the original laboratory reports for reference.

General Comments:

The purpose of this event was to sample the groundwater wells at the Himco Dump and nearby residential wells. The collected samples were analyzed for metals (aluminum, antimony, arsenic, barium, beryllium, cadmium, calcium, chromium, cobalt, copper, lead, magnesium, manganese, mercury, nickel, iron, potassium, selenium, silver, sodium, thallium, vanadium, and zinc), volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), pesticides, PCBs, and general chemistry parameters (cyanide, chloride, sulfate, and bromide).

Sampling Quality Assurance/Quality Control:

Field documentation included only the chain-of-custody with the field locations in terms of monitoring well and residential water well identifications. Therefore, no site interpretation or evaluation can be made.

Field duplicate samples are used to establish the representativeness of field sampling (i.e., the homogeneity and sample variability). The sample results are considered in good agreement except the SVOC, di-n-butyl phthalate and therefore the di-n-butyl phthalate results are considered estimated.

Field blanks (trip and/or equipment) are used to identify sample contamination resulting from sampling equipment, sample containers, chemical preservatives, and the handling and transportation of samples. A trip blank sample was tested for VOCs only and the results showed no contamination except for 1 ppb of methylene chloride. The field blank or equipment blank showed chloride, sulfate, bromide, calcium, copper, iron, potassium, magnesium, sodium, vanadium, nickel, methylene chloride, chloroform, 1,2-dichloroethane, bromodichloromethane, di-n-butylphthalate, and bis(2-ethylhexyl)phthalate contamination and therefore, the detected results are considered estimated, biased high and possibly reflect cross-contamination.

Laboratory Quality Assurance/Quality Control:

The laboratory performed all quality assurance/quality control (QA/QC) measures necessary to validate the analytical results for this sampling event. According to the Himco Supplemental Ground Water Investigation Field Sampling Plan/Quality Assurance Project Plan, the SW-846 methods were referenced for sample analysis. Based on the SW-846 quality assurance/control and CWA –NPDES SOP criteria, the data are considered acceptable for use.

Based on the validation of the analytical results, the following specific comments and/or qualifications are made regarding the data:

**Metals Analysis**

The water samples were tested for antimony, arsenic, cadmium, lead, selenium, and thallium by GFAA (Graphite Furnace Atomic Absorption) Method. The water samples were also tested for aluminum, barium, beryllium, calcium, chromium, cobalt, copper, iron, potassium, magnesium, manganese, silver, sodium, nickel, vanadium, and zinc by EPA Method 200.7 and mercury by EPA Method 245.2. The matrix spike duplicate sample testing was missing from the quality assurance / quality control information. To determine precision and possible matrix effects, matrix spike, matrix spike duplicate, and sample duplicate testing must be performed.

The 2001SK01S02, 2001SK01S03, and 2001SK01S04 arsenic results are considered estimated and biased slightly high due to continuing calibration verification (CCV) recovery of 111.7%. Note that 2001SK01S02 and 2001SK01S03 are reported diluted and reported as less than values yet above the detection limit.

The 2001SK01S03 lead results are considered estimated and biased slightly high due to continuing calibration verification (CCV) recovery of 110.9%.

The 2001SK01S01 through 2001SK01S04 and 2001SK01D02 thallium results are considered

estimated and biased slightly high due to continuing calibration verification (CCV) recovery of 118.3%. Note that 2001SK01S01 through 2001SK01S04 and 2001SK01D02 are reported diluted and reported as less than values and above the detection limit.

The 2001SK01S01 through 2001SK01S04 and 2001SK01D02 beryllium results are considered estimated and biased high due to contamination from the laboratory preparation blanks.

The 2001SK01S01 and 2001SK01D02 sodium result is considered estimated and biased high due to contamination from the laboratory preparation blanks.

The vanadium and nickel detected results are considered estimated and biased high due to contamination from the laboratory preparation blanks.

### **General Chemistry**

The water samples were tested for cyanide by EPA Method 335.2, and chloride, bromide, and sulfate by EPA Method 300. The matrix spike duplicate sample testing was missing from the quality assurance / quality control information. To determine precision and possible matrix effects, matrix spike, matrix spike duplicate, and sample duplicate testing must be performed.

The 2001SK01S03 bromide result is considered estimated and possibly biased low due to upper calibration standard exceedance.

The 2001SK01S03 cyanide result is considered estimated and biased low since the pH was not adjusted before testing.

### **Volatile Organic Compounds (VOCs)**

The water samples were tested for volatile organic compounds (VOCs) by a CLP method.

The 1,2 dichloroethane detected results are considered estimated and biased high due to out-of-control matrix spike duplicate recovery of 113%. Several other matrix spike duplicate recoveries are also out-of-control for trans-1,3-dichloropropene, 1,1,2-trichloroethane, 1,3-dichloropropane, dibromochloromethane, 1,2 dibromoethane, 1,2,3-trichloropropane and dibromomethane yet in these cases, the results are not considered qualified since the recoveries are biased high and the results are nondetect.

The naphthalene's initial calibration verification and continuing calibration verification are out-of-control yet the results are not considered qualified since the recoveries are biased high and the results are nondetect.

The tentatively identified compound, chlorofluoromethane, results are estimated due to lack of instrument calibration.

Note that all of the 2-chloroethyl vinyl ether results were rejected by the laboratory due to the laboratory's lack of calibration standard solutions.

### **Semivolatile Organic Compounds (SVOCs)**

The water samples were tested for semivolatile organic compounds (SVOCs) by a CLP method.

The di-n-butyl phthalate results are estimated due to a low laboratory control sample recovery of 48%, low laboratory control sample recovery of 56%, and contamination of 4 ppb found in the laboratory preparation blank.

The bis(2-ethylhexyl)phthalate detected results are estimated due to contamination of 3 ppb found in the laboratory preparation blank.

The 2-chlorophenol results are considered estimated due to low matrix spike recovery of 50%, low matrix spike duplicate recovery of 42%, and laboratory control sample duplicate recovery of 80%.

The 3-nitroaniline's initial calibration verification and laboratory control sample recovery of 112% and laboratory control duplicate sample recovery of 132% are out-of-control yet the results are not considered qualified since the recoveries are high and the results are nondetect.

The pentachlorophenol's initial calibration verification, continuing calibration verification, laboratory control sample recovery of 156%, and laboratory control sample duplicate recovery of 184% are out-of-control yet the results are not considered qualified since the recoveries are high and the results are nondetect.

The benzoic acid's initial calibration verification, continuing calibration verification, laboratory control sample recovery of 180%, and laboratory control sample duplicate recovery of 204% are out-of-control yet the results are not considered qualified since the recoveries are high and the results are nondetect.

The hexachlorocyclopentadiene's initial calibration verification, continuing calibration verification, laboratory control sample recovery of 88%, and laboratory control duplicate sample recovery of 88% are out-of-control yet the results are not considered qualified since the recoveries are high and the results are nondetect.

The 3,3-dichlorobenzidine's continuing calibration verification and laboratory control duplicate sample of 112% are out-of-control yet the results are not considered qualified since the recoveries are high and the results are nondetect.

The 4-nitrophenol's continuing calibration verification, matrix spike recovery of 133%, and matrix spike duplicate recovery of 140%, and laboratory control sample recovery of 164% are out-of-control yet the results are not considered qualified since the recoveries are high and the

results are nondetect.

The 2,4-dinitrophenol's initial calibration verification, continuing calibration verification, matrix spike recovery of 667%, laboratory control sample recovery of 640%, and laboratory control sample duplicate recovery of 840% are out-of-control yet the results are not considered qualified since the recoveries are high and the results are nondetect.

Laboratory control sample and laboratory control sample duplicate recoveries are out-of-control for 1,2-dichlorobenzene, benzyl alcohol, 4-methylphenol, bis(2-chloroisopropyl)ether, hexachloroethane, N-Nitro-di-n-propylamine, nitrobenzene, isophorone, 2,4-dimethylphenol, 2,4-dichlorophenol, 1,2,4-trichlorobenzene, 4-chloroaniline, hexachlorobutadiene, 4-chloro-3-methylphenol, 2-methylnaphthalene, 2,4,5-trichlorophenol, 2-aniline, dimethylphthalate, 4-chlorophenyl-phenylether, diethylphthalate, and butylbenzylphthalate yet the results were not considered qualified since the recoveries are high and the results are nondetect.

Laboratory control sample duplicate recoveries are out-of-control for phenol, 2-chlorophenol, 1,3-dichlorobenzene, 1,4-dichlorobenzene, 2-methylphenol, 2-nitrophenol, 2,4,6-trichlorophenol, 2-chloronaphthalene, 2,6-dinitrotoluene, acenaphthene, dibenzofuran, 2,4-dinitrotoluene, fluorene, 4,6-dinitro-2-methylphenol, N-Nitrosodiphenylamine, 4-bromophenyl-phenylether, hexachlorobenzene, pyrene, and chrysene yet the results are not considered qualified since the recoveries are high and the results are nondetect.

The tentatively identified compound results are estimated due to lack of instrument calibration.

Even though the laboratory column was unable to separate the 4-methylphenol and 3-methylphenol compounds, the results are considered not qualified since all of the samples are nondetect.

### **Pesticides and PCBs**

The water samples were tested for Pesticides and PCBs by a CLP method.

The PCB and pesticide results of samples 2001SK01S01, 2001SK01S03, 2001SK01S04 are considered estimated and biased low due to out-of-control surrogate recoveries.

The alpha-BHC, delta-BHC, gamma-chlordane, alpha-chlordane, p,p'-DDE, lindane, aldrin, endosulfan I, dieldrin, and endrin results are considered estimated and biased slightly low due to low recoveries of the quality control check samples.

The calibration verification is out-of-control for methoxychlor, aldrin, and p,p'-DDT yet in these cases, the results are not considered qualified since the recoveries are high and the results are nondetect.

The matrix spike and matrix spike duplicate recoveries are out-of-control for dieldrin and p,p'-

DDT yet in these cases, the results are not considered qualified since the recoveries are high and the results are nondetect.

The laboratory control sample recoveries are out-of-control for BHC (Lindane), dieldrin, endrin, and p,p'-DDT yet in these cases, the results are not considered qualified since the recoveries are high and the results are nondetect.

### Results:

Multiple samples exceeded the Drinking Water Standard Secondary Maximum Contaminant Levels (SMCLs) and Maximum Contaminant Levels (MCLs).

The attached charts list the data, except the pesticides and PCBs, that are qualified and/or exceed the MCLs, and SMCLs. All of the pesticides and PCB results are nondetect and all of the results are considered estimated except the beta-BHC, heptachlor, aldrin, hept epoxide, p,p'-DDT, endrin aldehyde, endosulfan sulfate, methoxychlor, endrin ketone, and aroclor 1242 for samples 2001SK01R01 (equipment blank) and 2001SK01S02 (2<sup>nd</sup> Residential Well).

Two MCLs were exceeded. Benzene concentration exceeded the 5 ppb MCL with 8 ppb of benzene for 2001SK01S03 (MW116A) and 1,2-dichloropropane exceeded the 5ppb MCL with 8 ppb of 1,2-dichloropropane for 2001SK01S02 (2<sup>nd</sup> Residential Well).

Several SMCLs were also exceeded. Total aluminum concentrations exceeded the 50-200 ppb SMCL with 58.2 ppb for 2001SK01S02 (2<sup>nd</sup> Residential Well), 335 ppb for 2001SK01S03 (MW116A), and 112 ppb for 2001SK01S04 (101A). Total iron concentrations exceeded the 300 ppb SMCL with 1840 ppb for 2001SK01S02 (2<sup>nd</sup> Residential Well), 8200 ppb for 2001SK01S03 (MW116A), and 9490 ppb for 2001SK01S04 (101A). Total manganese concentrations exceeded the 50 ppb SMCL with 103 ppb for 2001SK01S01 (1<sup>st</sup> Residential Well), 1250 ppb for 2001SK01S02 (2<sup>nd</sup> Residential Well), 1240 ppb for 2001SK01S03 (MW116A), and 929 ppb for 2001SK01S04 (101A). Sulfate concentration exceeded the 250 ppb SMCL with 1020 ppb for 2001SK01S03 (MW116A).

The VOC, chlorofluoromethane, was detected as a tentatively identified compound (TIC) at 4 ppb for 2001SK01S03 (MW116A) and 4 ppb for 2001SK01S04 (101A). Also, several SVOCs were detected as tentatively identified compounds and unknown compounds with the total concentrations of 235 ppb for the 2001SK01D02 (2<sup>nd</sup> Residential well duplicate), 25 ppb for 2001SK01S03 (MW116A) and 6 ppb for 2001SK01S04 (101A).

### Conclusion

For the overall project goal, the data are acceptable for use. Quarterly sampling and any ongoing remediation should continue to document when samples exceed the MCL, SMCL, and/or action levels. Also, field sheets and a sampling location map should be submitted with future results and the SW-846 methods and criteria listed in the Himco Supplemental Ground Water

Investigation Field Sampling Plan/Quality Assurance Project Plan should be followed in the future.

Attachments



## Total Metals

pg 1  
Water

**Site Name:** Himco Dump  
**Location:** Elkhart County, Elkhart, Indiana  
**Date Sampled:** 11/15/00 and 11/16/00  
**Date Reported:** 12/5/2000 and 12/6/2000 (mercury)  
**Lab:** EPA Region 5 Central Regional Laboratories

UNITS: ug/L

| Sample #    | Type/ID#                            | Ag         | Al            | Ba   | Be    | Ca     | Cr  | Co    | Cu    | Fe         | Hg  |
|-------------|-------------------------------------|------------|---------------|------|-------|--------|-----|-------|-------|------------|-----|
| Lab         | Reporting limits >                  | 1          | 40            | 2    | 0.3   | 44     | 3   | 1     | 2     | 11         | 0.5 |
|             | MCLs and Action levels >            | 100 (SMCL) | 50-200 (SMCL) | 2000 | 4     | N/A    | 100 | N/A   | 1300  | 300 (SMCL) | 2   |
| 2001SK01R01 | Field Method Blank*                 |            |               |      |       | 53.1   |     |       | 1.1 M | 4.3 M      |     |
| 2001SK01S01 | 1st Residential Well                |            | 35.9 M        | 48.1 | 0.2 M | 102000 |     |       | 2.3   | 60.2       |     |
| 2001SK01S02 | 2nd Residential Well                |            | 58.2          | 46.9 | 0.3 M | 129000 |     | 0.8 M | 1.0 M | 1840       |     |
| 2001SK01D02 | Duplicate of 2nd Residential Well** |            | 53.7          | 47.4 | 0.1 M | 129000 |     | 0.9 M | 1.4 M | 1720       |     |
| 2001SK01S03 | MW116A                              |            | 335           | 133  | 1.0   | 745000 |     | 1.1   | 2.1   | 8200       |     |
| 2001SK01S04 | 101A                                |            | 112           | 79.3 | 0.6   | 227000 |     |       |       | 9490       |     |

\* BLANK (Type indicated)

Empty Box indicates NON-DETECTABLE

Estimated

\*\* FIELD DUPLICATE

NR = NOT RUN

N/A = Not Applicable

**Bold = above action level**

M = result is above the method detection limit yet below the reporting limit.

## Total Metals

pg 2  
water

Site Name: Himco Dump  
 Location: Elkhart County, Elkhart, Indiana  
 Date Sampled: 11/15/00 and 11/16/00  
 Date Reported: 12/5/2000  
 Lab: EPA Region 5 Central Regional Laboratories

UNITS: ug/L

| Sample #    | Type/ID#                            | K            | Mg           | Mn          | Na            | Ni           | V            | Zn            |
|-------------|-------------------------------------|--------------|--------------|-------------|---------------|--------------|--------------|---------------|
| Lab         | Reporting Limit>                    | 600          | 8            | 2           | 200           | 2            | 9            | 25            |
|             | MCLs and Action levels >            | N/A          | N/A          | 50 (SMCL)   | N/A           | N/A          | N/A          | 5000 (SMCL)   |
| 2001SK01R01 | Field Method Blank*                 | <b>219 M</b> | <b>15.1</b>  |             | <b>212</b>    | <b>1.2 M</b> | <b>4.3 M</b> |               |
| 2001SK01S01 | 1st Residential Well                | <b>2790</b>  | <b>24800</b> | <b>103</b>  | <b>53100</b>  | <b>2.9</b>   | <b>5.5 M</b> | <b>21.7 M</b> |
| 2001SK01S02 | 2nd Residential Well                | <b>4400</b>  | <b>14200</b> | <b>1250</b> | <b>42300</b>  | <b>3.4</b>   | <b>4.9 M</b> | <b>14.3 M</b> |
| 2001SK01D02 | Duplicate of 2nd Residential Well** | <b>4670</b>  | <b>14200</b> | <b>1250</b> | <b>42700</b>  | <b>3.6</b>   | <b>3.4 M</b> | <b>20.3 M</b> |
| 2001SK01S03 | MW116A                              | <b>30800</b> | <b>60000</b> | <b>1240</b> | <b>214000</b> | <b>4.2</b>   | <b>9.1</b>   | <b>85.5</b>   |
| 2001SK01S04 | 101A                                | <b>10100</b> | <b>20200</b> | <b>929</b>  | <b>36700</b>  | <b>2.3</b>   | <b>5.0 M</b> | <b>14.9 M</b> |

\* BLANK (Type indicated)

Empty Box indicates NON-DETECTABLE

Estimated

\*\* FIELD DUPLICATE

NR = NOT RUN

N/A=Not Applicable

**Bold = above action level**

M = result is above the method detection limit yet below the reporting limit.

## Total Metals

pg 3

Water

Site Name: Himco Dump  
 Location: Elkhart County, Elkhart, Indiana  
 Date Sampled: 11/15/00 and 11/16/00  
 Date Reported: 12/15/00  
 Lab: EPA Region 5 Central Regional Laboratories

UNITS: ug/L

| Sample #    | Type/ID#                            | As    | Cd     | Pb                | Sb    | Se    | Tl    |
|-------------|-------------------------------------|-------|--------|-------------------|-------|-------|-------|
| Lab         | Reporting Limit>                    | 2     | 0.3    | 2                 | 4     | 4     | 2     |
|             | MCLs and Action Levels >            | 50    | 5      | 15 (action level) | 6     | 50    | 2     |
| 2001SK01R01 | Field Method Blank*                 |       |        |                   |       |       |       |
| 2001SK01S01 | 1st Residential Well                |       |        |                   |       |       | <4 D  |
| 2001SK01S02 | 2nd Residential Well                | <4 D  | <0.6 D |                   |       | <8 D  | <6 D  |
| 2001SK01D02 | Duplicate of 2nd Residential Well** |       | <0.6 D |                   |       | <8 D  | <4 D  |
| 2001SK01S03 | MW116A                              | <10 D | <0.9 D | 2                 | <16 D | <40 D | <20 D |
| 2001SK01S04 | 101A                                | 6.4   | <0.6 D |                   | <8 D  |       | <20 D |

\* BLANK (Type indicated)

Empty Box indicates NON-DETECTABLE

Estimated

\*\* FIELD DUPLICATE

NR = NOT RUN

N/A = Not Applicable

Bold = above action level

D = Dilutions were necessary and the results are reported above the reporting limit.

## General Chemical Analysis

**Site Name:** Himco Dump **Water**  
**Location:** Elkhart County, Elkhart, Indiana  
**Date Sampled:** 11/15/00 and 11/16/00  
**Date Reported:** 1/16/01 and 12/5/00 (cyanide)  
**Lab:** EPA Region 5 Central Regional Laboratories **UNITS: mg/L**

| Sample #    | Type/ID#                            | Bromide     | Chloride    | Sulfate     | Cyanide |
|-------------|-------------------------------------|-------------|-------------|-------------|---------|
| Lab         |                                     |             |             |             |         |
|             | Reporting Limit>                    | 0.014       | 0.05        | 0.025       | 0.008   |
|             | MCLs and Action levels >            | N/A         | 250 (SMCL)  | 250 (SMCL)  | 0.2     |
| 2001SK01R01 | Field Method Blank*                 | <b>0.04</b> | <b>96.5</b> | <b>79.3</b> |         |
| 2001SK01S01 | 1st Residential Well                |             |             |             |         |
| 2001SK01S02 | 2nd Residential Well                |             | 99.9        | 105         |         |
| 2001SK01D02 | Duplicate of 2nd Residential Well** | 0.03        | 98.4        | 104         |         |
| 2001SK01S03 | MW116A                              | <b>3.75</b> | <b>26.0</b> | <b>1020</b> |         |
| 2001SK01S04 | 101A                                | <b>0.32</b> | <b>27.2</b> | <b>177</b>  |         |

\* BLANK (Type indicated)

\*\* FIELD DUPLICATE

Empty Box indicates NON-DETECTABLE

NR = NOT RUN

N/A = Not Applicable

Estimated

**Bold = above action level**

## Volatile Organic Analysis

pg 1  
Water

**Site Name:** Himco Dump  
**Location:** Elkhart County, Elkhart, Indiana  
**Date Sampled:** 11/15/00 and 11/16/00  
**Date Reported:** 12/14/2000  
**Lab:** EPA Region 5 Central Regional Laboratories

UNITS: ug/L

| Sample #    | Type/ID#                            | Benzene | 1,1-Dichloroethane | 1,2-Dichloroethane | cis-1,2-Dichloroethene | Dichlorofluoromethane | 1,2-Dichloropropane |
|-------------|-------------------------------------|---------|--------------------|--------------------|------------------------|-----------------------|---------------------|
| Lab         |                                     |         |                    |                    |                        |                       |                     |
|             | Reporting Limit                     | 1       | 1                  | 1                  | 1                      | 1                     | 1                   |
|             | MCLs and Action Levels >            | 5       | N/A                | 5                  | 70                     | N/A                   | 5                   |
| 2001SK01R01 | Field Method Blank*                 |         |                    | 1                  |                        |                       |                     |
| 2001SK01S01 | 1st Residential Well                |         |                    |                    |                        |                       |                     |
| 2001SK01S02 | 2nd Residential Well                |         | 4                  | 1                  | 2                      | 5                     | 8                   |
| 2001SK01D02 | Duplicate of 2nd Residential Well** |         | 4                  | 1                  | 3                      | 6                     | 8                   |
| 2001SK01S03 | MW116A                              | 8       | 9                  |                    |                        | 10                    | 2                   |
| 2001SK01S04 | 101A                                | 2       | 14                 |                    |                        | 6                     |                     |
| 2001SK01R02 | Trip Blank                          |         |                    |                    |                        |                       |                     |

\* BLANK (Type indicated)

\*\* FIELD DUPLICATE

Empty Box indicates NON-DETECTABLE

NR = NOT RUN

N/A = Not Applicable

Estimated

**Bold = above action level**

## Semi-Volatile Organic Analysis

Water

**Site Name:** Himco Dump  
**Location:** Elkhart County, Elkhart, Indiana  
**Date Sampled:** 11/15/00 and 11/16/00  
**Date Reported:** 12/19/2000  
**Lab:** EPA Region 5 Central Regional Laboratories

UNITS: ug/L

| Sample #    | Type/ID#                            | Bis(2-ethylhexyl)phthalate | Di-n-butylphthalate | Hydroxybenzothiazole | Sum of TICs<br>and unknown compounds |
|-------------|-------------------------------------|----------------------------|---------------------|----------------------|--------------------------------------|
| Lab         | Reporting Limit                     | 5                          | 5                   | 10                   |                                      |
|             | MCLs and Action levels >            | N/A                        | NA                  | NA                   | -                                    |
| 2001SK01R01 | Field Method Blank*                 | <b>3 M</b>                 | <b>3 M</b>          |                      |                                      |
| 2001SK01S01 | 1st Residential Well                |                            | <b>4 M</b>          |                      |                                      |
| 2001SK01S02 | 2nd Residential Well                | <b>3 M</b>                 |                     |                      |                                      |
| 2001SK01D02 | Duplicate of 2nd Residential Well** | <b>3 M</b>                 | 14                  |                      | 235                                  |
| 2001SK01S03 | MW116A                              |                            | 4 M                 | 23                   | 25                                   |
| 2001SK01S04 | 101A                                |                            |                     | 30                   | 6                                    |

\* BLANK (Type indicated)

Empty Box indicates NON-DETECTABLE

Estimated

\*\* FIELD DUPLICATE

NR = NOT RUN

NA = Not Applicable

**Bold = above action level**

TIC = Tentatively Identified Compound

M = result is above the method detection limit yet below the reporting limit.

### PCBs/Pesticides

Water

**Site Name:** Himco Dump  
**Location:** Elkhart County, Elkhart, Indiana  
**Date Sampled:** 11/15/00 and 11/16/00  
**Date Reported:** 1/29/01  
**Lab:** EPA Region 5 Central Regional Laboratories

UNITS: ug/L

| Sample #    | Type/ID#                            | alpha-BHC | Lindane | beta-BHC | Heptachlor | delta-BHC | Aldrin | Hept Epoxide | gamma-Chlordane | alpha-Chlordane | Endosulfan I |
|-------------|-------------------------------------|-----------|---------|----------|------------|-----------|--------|--------------|-----------------|-----------------|--------------|
| Lab         |                                     |           |         |          |            |           |        |              |                 |                 |              |
|             | Action Value >                      |           |         |          |            |           |        |              |                 |                 |              |
| 2001SK01R01 | Field Method Blank*                 |           |         |          |            |           |        |              |                 |                 |              |
| 2001SK01S01 | 1st Residential Well                |           |         |          |            |           |        |              |                 |                 |              |
| 2001SK01S02 | 2nd Residential Well                |           |         |          |            |           |        |              |                 |                 |              |
| 2001SK01D02 | Duplicate of 2nd Residential Well** |           |         |          |            |           |        |              |                 |                 |              |
| 2001SK01S03 | MW116A                              |           |         |          |            |           |        |              |                 |                 |              |
| 2001SK01S04 | 101A                                |           |         |          |            |           |        |              |                 |                 |              |

\* BLANK (Type indicated)

\*\* FIELD DUPLICATE

Empty Box indicates NON-DETECTABLE

NR = NOT RUN

### PCBs/Pesticides

Soil

**Site Name:** Himco Dump  
**Location:** Elkhart County, Elkhart, Indiana  
**Date Sampled:** 11/15/00 and 11/16/00  
**Date Reported:**  
**Lab:** EPA Region 5 Central Regional Laboratories UNITS: ug/kg

| Sample #       | Type/ID#                            | p,p'-DDE | Dieldrin | Endrin | p,p'-DDT | non Aldeh | sulfan S | ethoxychi | Endrin ketone | Aroclor 1242 |
|----------------|-------------------------------------|----------|----------|--------|----------|-----------|----------|-----------|---------------|--------------|
| Lab            |                                     |          |          |        |          |           |          |           |               |              |
| Action Value > |                                     |          |          |        |          |           |          |           |               |              |
| 2001SK01R01    | Field Method Blank*                 |          |          |        |          |           |          |           |               |              |
| 2001SK01S01    | 1st Residential Well                |          |          |        |          |           |          |           |               |              |
| 2001SK01S02    | 2nd Residential Well                |          |          |        |          |           |          |           |               |              |
| 2001SK01D02    | Duplicate of 2nd Residential Well** |          |          |        |          |           |          |           |               |              |
| 2001SK01S03    | MW116A                              |          |          |        |          |           |          |           |               |              |
| 2001SK01S04    | 101A                                |          |          |        |          |           |          |           |               |              |

\* BLANK (Type indicated)

\*\* FIELD DUPLICATE

Empty Box indicates NON-DETECTABLE

NR = NOT RUN

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY



REGION 5 CENTRAL REGIONAL LABORATORY

536 SOUTH CLARK STREET

CHICAGO, ILLINOIS 60605

Date: DEC 11 2000

Subject: Review of Region 5 Data for Himco Landfill

From: Nidia Fuentes, Chemist *NF*  
Region 5 Central Regional Laboratory

To: Gwen Massenburz  
*SK - 6J*

Attached are the results for Site: Himco Landfill  
CRL Data Set Number: 2001 0009  
for analyses of : VOA - waters  
Results are reported for sample numbers: 2001SK01S01, S02, D02, S03, S04,  
R01, R02, S02MS and S02MSD.

Results Status:

- Acceptable for Use
- Data Qualified, but Acceptable for use
- Data Unacceptable for Use

Sylvia Griffin 12/14/2007  
CRL Data Management Coordinator and Date Received

Date Transmitted: Dec 14 2007

Please have the US EPA project leader fill out the customer survey form on the Region 5 Intranet:  
<http://www.r5intra.epa.gov/crl/qa.html> (← by clicking on this link, or call George Schupp, CRL  
Sample Coordinator, at 3-1226).

Please sign and date this form below and return it with any comments to:

Sylvia Griffin  
Data Management Coordinator  
Region 5 Central Regional Laboratory  
ML - 10C

---

Received by and Date

Comments:



## CASE NARRATIVE

DATE: December 14, 2000

PROJECT NAME: Himco Landfill - CRL Case #:20010009  
Analysis of Volatile Organic Analytes (VOA)

ANALYST: Nidia Fuentes, Chemist *NF*

REVIEWER: Babu Paruchuri, GC/MS Team Leader *BP*

### I. CASE DESCRIPTION:

The laboratory received seven low water samples (2001SK01S01, S02, S03, S04, R01, R02 and D02) for volatile organic analyte (VOA) analysis which were already acid preserved in the field. These samples were analyzed on 11/22-23/2000 by the CRL Method GCMS023, on instrument #7. In addition to the routine parameters, the lab analyzed the site samples for the following additional site specific compounds: ethyl ether, dichlorofluoromethane, and chlorofluoromethane. Because the latter compound was not readily available at the time of sample analysis, the lab reported estimated concentrations for chlorofluoromethane. The laboratory met sample analysis holding time criteria for all samples. (QC Criteria for water acid preserved sample analysis holding time: 14 days from the date of collection.) These samples were received at the laboratory in good condition.

### II. INSTRUMENT QUALITY CONTROLS:

1. Instrument Performance Check: On each day of analysis, the GC/MS instrument (HP-MSD#7) performance checks were made to determine whether the instrument met the EPA tuning criteria for p-BFB (QC Criteria: Same as the CWA's criteria). No problems were observed.

2. Initial Calibration Check: An acceptable five point initial calibration (IC) curve (QC Criteria for IC: %RSD should be  $\leq 35\%$ ) is required for all target compounds before samples can be analyzed. The lab generated one IC curve on

11/21/2000, having no outliers except naphthalene and 2-chloroethyl vinyl ether. Because the latter compound was not detected in the calibration standards, 2-chloroethyl vinyl ether data were qualified as unusable "R". Also, since naphthalene not was detected in the site samples, its reporting limits were flagged estimated (UJ).

3. Continuing Calibration Check: Two continuing calibrations check (CCC) standards were evaluated to analyze the site samples. The first CCC data generated on 11/22/2000 met the CRL QC requirements for all compounds (QC Criteria for CC: %D should be  $\leq 30\%$ ) except for naphthalene and 2-chloroethyl vinyl ether. The following samples were analyzed by this calibration: 2001SK01S01, S02, D02, S03, S04, R01 and R02. The second CCC generated on 11/24/2000 had two outliers: naphthalene and 2-chloroethyl vinyl ether. The following Samples were analyzed by this CC: 2001SK01S02dil, D02dil, S03dil, S04dil, S02MSdil and S02MSDdil.

4. Internal Standard (IS) Area and Retention Time (RT) Summary: The lab generated data of acceptable quality.

### III. METHOD QUALITY CONTROL:

1. Method Blank Results: On each day of sample analysis, 25-ml of reagent water spiked with internal standards and surrogates was analyzed to check the GC/MS and purge and trap systems for lab contamination. No problems were encountered.

2. Surrogate Spike Compound Results: The surrogate spike compound recovery data were within the CRL's QC limits for all of the site samples.

3. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Results: The laboratory collected site-specific matrix precision and accuracy (P&A) data using the site sample 2001SK01S02. Because the lab has not yet analyzed enough MS and MSD samples to establish QC acceptance criteria, the lab evaluated the MS and MSD sample QC data quality based on QC acceptance criteria established for LCS and LCS duplicates. Please see below.

4. Laboratory Control Sample (LCS): The laboratory analyzed LCS and LCS duplicates and generated data of acceptable quality for the target compounds.

5. Performance Evaluation Sample (PES): Not applicable. QC Criteria for the PES: Control Limits are established by EMSL-LV.

**IV. SAMPLE RESULTS:**

The laboratory generated data of acceptable quality. Some of the field samples, S02, D02, S03 and S04, were diluted and reanalyzed at proper dilutions. The affected compound (ethyl ether and dichlorofluoromethane) data were qualified "D". Chlorofluoromethane result should be considered as an estimated value.

## CRL Data Review Qualification Codes

| QUALIFIER | DESCRIPTION  |
|-----------|--|
| <b>B</b>  | This flag is used when the analyte is found in the associated <u>B</u> lank as well as the sample. It indicates possible blank contamination and warns the user to take appropriate action while assessing the data. See the case narrative for a discussion of common lab contaminants and/or the relative concentration of contamination in the samples and blanks for relevance.  |
| <b>D</b>  | This flag is used when the analyte concentration results from a required <u>D</u> ilution of the sample, extract or digestate.   |
| <b>E</b>  | This flag is used to identify analyte concentrations <u>E</u> xceeding the upper calibration range of the analytical instrument after dilution of the sample, extract or digestate. The reported value is considered to be estimated   |
| <b>J</b>  | This flag is used when the analyte is <u>e</u> stimated due to quality control limit(s) being exceeded. This flag accompanies all GC/MS tentatively identified compounds (TICs). This flag also applies to a suspected, unidentified interference. This flag is placed on affected detected results as well as non-detected (i.e., "U" flagged) results. ( <u>J</u> is the flag used in the Superfund CLP SOW and Data Review Functional Guidelines and is used by CRL for consistency.) |
| <b>M</b>  | This flag is used when the analyte is confirmed to be qualitatively present in the sample, extract or digestate, at or above the CRL <u>M</u> ethod Detection Limit (MDL) but below the CRL reporting limit (RL). This flag applies to all values in this concentration range and indicates the quantitated value is <u>e</u> stimated due to its presence in this concentration range.  |
| <b>N</b>  | This flag applies to GC/MS <u>T</u> entatively Identified Compounds (TICs) that have a mass spectral library match.  |
| <b>Q</b>  | This flag applies to analyte data that are severely estimated due to quality control and/or <u>Q</u> uantitation problems, but are confirmed to be qualitatively present in the sample. <u>N</u> o value is reported with this qualification flag.   |
| <b>R</b>  | This flag applies to analyte data that are <u>R</u> ejected and unusable due to severe quality control, quantitation and/or qualitative identification problems. No other qualification flags are reported for this analyte. <u>N</u> o value is reported with this qualification flag.  |
| <b>U</b>  | This flag is used when the analyte was analyzed but <u>U</u> ndetected in the sample. The CRL RL for the analyte accompanies this flag. As with sample results that are positive, the value is corrected for dry weight, dilution and/or sample weight or volume.  |

4/11/00

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

**LAB BLANK**

Lab Name: HIMCO LANDFILL Contract: CRL  
 Lab Code: 5-CRL Case No.: 20010009 SAS No.: \_\_\_\_\_ SDG No.: GCMS022  
 Matrix: (soil/water) WATER Lab Sample ID: LAB BLANK  
 Sample wt/vol: 25.0 (g/ml) ML Lab File ID: 7C112210.D  
 Level: (low/med) LOW Date Received: 11/17/00  
 % Moisture: not dec. Date Analyzed: 11/22/00  
 GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

| CAS NO.    | COMPOUND                  | (ug/L or ug/Kg) | UG/L | Q |
|------------|---------------------------|-----------------|------|---|
| 75-01-4    | Vinyl chloride            |                 | 1    | U |
| 74-87-3    | Chloromethane             |                 | 1    | U |
| 74-83-9    | Bromomethane              |                 | 1    | U |
| 75-00-3    | Chloroethane              |                 | 1    | U |
| 107-64-1   | Acrolein                  |                 | 10   | U |
| 75-35-4    | 1,1-Dichloroethene        |                 | 1    | U |
| 115-10-6   | Ethyl ether               |                 | 1    | U |
| 75-71-8    | Dichlorofluoromethane     |                 | 1    | U |
| 67-64-1    | Acetone                   |                 | 10   | U |
| 75-15-0    | Carbon disulfide          |                 | 1    | U |
| 75-09-2    | Methylene chloride        |                 | 1    | U |
| 107-13-1   | Acrylonitrile             |                 | 10   | U |
| 156-60-5   | trans-1,2-Dichloroethene  |                 | 1    | U |
| 75-34-3    | 1,1-Dichloroethane        |                 | 1    | U |
| 78-93-3    | 2-Butanone                |                 | 10   | U |
| 156-59-2   | cis-1,2-Dichloroethene    |                 | 1    | U |
| 594-20-7   | 2,2-Dichloropropane       |                 | 2    | U |
| 74-97-5    | Bromochloromethane        |                 | 1    | U |
| 67-66-3    | Chloroform                |                 | 1    | U |
| 71-55-6    | 1,1,1-Trichloroethane     |                 | 1    | U |
| 563-58-6   | 1,1-Dichloropropene       |                 | 1    | U |
| 56-23-5    | Carbon tetrachloride      |                 | 1    | U |
| 107-06-2   | 1,2-Dichloroethane        |                 | 1    | U |
| 71-43-2    | Benzene                   |                 | 1    | U |
| 79-01-6    | Trichloroethene           |                 | 1    | U |
| 78-87-5    | 1,2-Dichloropropane       |                 | 1    | U |
| 75-27-4    | Bromodichloromethane      |                 | 1    | U |
| 10061-01-5 | cis-1,3-Dichloropropene   |                 | 1    | U |
| 108-10-1   | 4-Methyl-2-pentanone      |                 | 5    | U |
| 108-88-3   | Toluene                   |                 | 1    | U |
| 10061-02-6 | trans-1,3-Dichloropropene |                 | 2    | U |
| 110-75-8   | 2-Chloroethyl vinyl ether |                 | 5    | U |
| 79-00-5    | 1,1,2-Trichloroethane     |                 | 1    | U |
| 142-28-9   | 1,3-Dichloropropane       |                 | 1    | U |
| 127-18-4   | Tetrachloroethene         |                 | 1    | U |
| 591-78-6   | 2-Hexanone                |                 | 2    | U |
| 124-48-1   | Dibromochloromethane      |                 | 1    | U |
| 106-93-4   | 1,2-Dibromoethane         |                 | 1    | U |
| 108-90-7   | Chlorobenzene             |                 | 1    | U |

*11/22/00*

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

**LAB BLANK**

Lab Name: HIMCO LANDFILL Contract: CRL  
 Lab Code: 5-CRL Case No.: 20010009 SAS No.: \_\_\_\_\_ SDG No.: GCMS022  
 Matrix: (soil/water) WATER Lab Sample ID: LAB BLANK  
 Sample wt/vol: 25.0 (g/ml) ML Lab File ID: 7C112210.D  
 Level: (low/med) LOW Date Received: 11/17/00  
 % Moisture: not dec. Date Analyzed: 11/22/00  
 GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

| CAS NO.    | COMPOUND                    | (ug/L or ug/Kg) | UG/L | Q   |
|------------|-----------------------------|-----------------|------|-----|
| 630-20-6   | 1,1,1,2-Tetrachloroethane   |                 | 1    | U   |
| 100-41-4   | Ethylbenzene                |                 | 1    | U   |
| 1083836423 | m- &/or p-Xylene            |                 | 1    | U   |
| 95-47-6    | o-Xylene                    |                 | 1    | U   |
| 100-42-5   | Styrene                     |                 | 1    | U   |
| 75-25-2    | Bromoform                   |                 | 1    | U   |
| 98-82-8    | Isopropylbenzene            |                 | 1    | U   |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   |                 | 1    | U   |
| 96-18-4    | 1,2,3-Trichloropropane      |                 | 1    | U   |
| 108-86-1   | Bromobenzene                |                 | 1    | U   |
| 103-65-1   | n-Propylbenzene             |                 | 1    | U   |
| 95-49-8    | 2-Chlorotoluene             |                 | 1    | U   |
| 106-43-4   | 4-Chlorotoluene             |                 | 1    | U   |
| 108-67-8   | 1,3,5-Trimethylbenzene      |                 | 1    | U   |
| 98-06-6    | tert-Butylbenzene           |                 | 1    | U   |
| 95-63-6    | 1,2,4-Trimethylbenzene      |                 | 1    | U   |
| 135-98-8   | sec-Butylbenzene            |                 | 1    | U   |
| 99-87-6    | p-Isopropyltoluene          |                 | 1    | U   |
| 541-73-1   | 1,3-Dichlorobenzene         |                 | 1    | U   |
| 106-46-7   | 1,4-Dichlorobenzene         |                 | 1    | U   |
| 104-51-8   | n-Butylbenzene              |                 | 1    | U   |
| 95-50-1    | 1,2-Dichlorobenzene         |                 | 1    | U   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane |                 | 1    | U   |
| 120-82-1   | 1,2,4-Trichlorobenzene      |                 | 1    | U   |
| 87-68-3    | Hexachlorobutadiene         |                 | 1    | U   |
| 91-20-3    | Naphthalene                 |                 | 1    | U 5 |
| 87-61-6    | 1,2,3-Trichlorobenzene      |                 | 1    | U   |

1E  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

LAB BLANK

Lab Name: HIMCO LANDFILL Contract: CRL  
Lab Code: 5-CRL Case No.: 20010009 SAS No.: \_\_\_\_\_ SDG No.: GCMS022  
Matrix: (soil/water) WATER Lab Sample ID: LAB BLANK  
Sample wt/vol: 25.0 (g/ml) ML Lab File ID: 7C112210.D  
Level: (low/med) LOW Date Received: 11/17/00  
% Moisture: not dec. \_\_\_\_\_ Date Analyzed: 11/22/00  
GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0  
Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

Number TICs found: 0 (ug/L or ug/Kg) UG/L

| CAS NO. | COMPOUND NAME | RT | EST. CONC. | Q |
|---------|---------------|----|------------|---|
|---------|---------------|----|------------|---|

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

**LAB BLANK**

Lab Name: HIMCO LANDFILL Contract: CRL  
 Lab Code: 5-CRL Case No.: 20010009 SAS No.: \_\_\_\_\_ SDG No.: GCMS022  
 Matrix: (soil/water) WATER Lab Sample ID: LAB BLANK  
 Sample wt/vol: 25.0 (g/ml) ML Lab File ID: 7C112404.D  
 Level: (low/med) LOW Date Received: 11/17/00  
 % Moisture: not dec. Date Analyzed: 11/24/00  
 GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

| CAS NO.    | COMPOUND                  | (ug/L or ug/Kg) | UG/L | Q |
|------------|---------------------------|-----------------|------|---|
| 75-01-4    | Vinyl chloride            |                 | 1    | U |
| 74-87-3    | Chloromethane             |                 | 1    | U |
| 74-83-9    | Bromomethane              |                 | 1    | U |
| 75-00-3    | Chloroethane              |                 | 1    | U |
| 107-64-1   | Acrolein                  |                 | 10   | U |
| 75-35-4    | 1,1-Dichloroethene        |                 | 1    | U |
| 115-10-6   | Ethyl ether               |                 | 1    | U |
| 75-71-8    | Dichlorofluoromethane     |                 | 1    | U |
| 67-64-1    | Acetone                   |                 | 10   | U |
| 75-15-0    | Carbon disulfide          |                 | 1    | U |
| 75-09-2    | Methylene chloride        |                 | 1    | U |
| 107-13-1   | Acrylonitrile             |                 | 10   | U |
| 156-60-5   | trans-1,2-Dichloroethene  |                 | 1    | U |
| 75-34-3    | 1,1-Dichloroethane        |                 | 1    | U |
| 78-93-3    | 2-Butanone                |                 | 10   | U |
| 156-59-2   | cis-1,2-Dichloroethene    |                 | 1    | U |
| 594-20-7   | 2,2-Dichloropropane       |                 | 2    | U |
| 74-97-5    | Bromochloromethane        |                 | 1    | U |
| 67-66-3    | Chloroform                |                 | 1    | U |
| 71-55-6    | 1,1,1-Trichloroethane     |                 | 1    | U |
| 563-58-6   | 1,1-Dichloropropene       |                 | 1    | U |
| 56-23-5    | Carbon tetrachloride      |                 | 1    | U |
| 107-06-2   | 1,2-Dichloroethane        |                 | 1    | U |
| 71-43-2    | Benzene                   |                 | 1    | U |
| 79-01-6    | Trichloroethene           |                 | 1    | U |
| 78-87-5    | 1,2-Dichloropropane       |                 | 1    | U |
| 75-27-4    | Bromodichloromethane      |                 | 1    | U |
| 10061-01-5 | cis-1,3-Dichloropropene   |                 | 1    | U |
| 108-10-1   | 4-Methyl-2-pentanone      |                 | 5    | U |
| 108-88-3   | Toluene                   |                 | 1    | U |
| 10061-02-6 | trans-1,3-Dichloropropene |                 | 2    | U |
| 110-75-8   | 2-Chloroethyl vinyl ether |                 | 5    | U |
| 79-00-5    | 1,1,2-Trichloroethane     |                 | 1    | U |
| 142-28-9   | 1,3-Dichloropropane       |                 | 1    | U |
| 127-18-4   | Tetrachloroethene         |                 | 1    | U |
| 591-78-6   | 2-Hexanone                |                 | 2    | U |
| 124-48-1   | Dibromochloromethane      |                 | 1    | U |
| 106-93-4   | 1,2-Dibromoethane         |                 | 1    | U |
| 108-90-7   | Chlorobenzene             |                 | 1    | U |

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

LAB BLANK

Lab Name: HIMCO LANDFILL Contract: CRL  
 Lab Code: 5-CRL Case No.: 20010009 SAS No.: \_\_\_\_\_ SDG No.: GCMS022  
 Matrix: (soil/water) WATER Lab Sample ID: LAB BLANK  
 Sample wt/vol: 25.0 (g/ml) ML Lab File ID: 7C112404.D  
 Level: (low/med) LOW Date Received: 11/17/00  
 % Moisture: not dec. Date Analyzed: 11/24/00  
 GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

| CAS NO.    | COMPOUND                    | (ug/L or ug/Kg) | UG/L | Q   |
|------------|-----------------------------|-----------------|------|-----|
| 630-20-6   | 1,1,1,2-Tetrachloroethane   |                 | 1    | U   |
| 100-41-4   | Ethylbenzene                |                 | 1    | U   |
| 1083836423 | m- &/or p-Xylene            |                 | 1    | U   |
| 95-47-6    | o-Xylene                    |                 | 1    | U   |
| 100-42-5   | Styrene                     |                 | 1    | U   |
| 75-25-2    | Bromoform                   |                 | 1    | U   |
| 98-82-8    | Isopropylbenzene            |                 | 1    | U   |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   |                 | 1    | U   |
| 96-18-4    | 1,2,3-Trichloropropane      |                 | 1    | U   |
| 108-86-1   | Bromobenzene                |                 | 1    | U   |
| 103-65-1   | n-Propylbenzene             |                 | 1    | U   |
| 95-49-8    | 2-Chlorotoluene             |                 | 1    | U   |
| 106-43-4   | 4-Chlorotoluene             |                 | 1    | U   |
| 108-67-8   | 1,3,5-Trimethylbenzene      |                 | 1    | U   |
| 98-06-6    | tert-Butylbenzene           |                 | 1    | U   |
| 95-63-6    | 1,2,4-Trimethylbenzene      |                 | 1    | U   |
| 135-98-8   | sec-Butylbenzene            |                 | 1    | U   |
| 99-87-6    | p-Isopropyltoluene          |                 | 1    | U   |
| 541-73-1   | 1,3-Dichlorobenzene         |                 | 1    | U   |
| 106-46-7   | 1,4-Dichlorobenzene         |                 | 1    | U   |
| 104-51-8   | n-Butylbenzene              |                 | 1    | U J |
| 95-50-1    | 1,2-Dichlorobenzene         |                 | 1    | U   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane |                 | 1    | U   |
| 120-82-1   | 1,2,4-Trichlorobenzene      |                 | 1    | U   |
| 87-68-3    | Hexachlorobutadiene         |                 | 1    | U J |
| 91-20-3    | Naphthalene                 |                 | 1    | U J |
| 87-61-6    | 1,2,3-Trichlorobenzene      |                 | 1    | U   |

1E  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

**LAB BLANK**

Lab Name: HIMCO LANDFILL Contract: CRL  
Lab Code: 5-CRL Case No.: 20010009 SAS No.: \_\_\_\_\_ SDG No.: GCMS022  
Matrix: (soil/water) WATER Lab Sample ID: LAB BLANK  
Sample wt/vol: 25.0 (g/ml) ML Lab File ID: 7C112404.D  
Level: (low/med) LOW Date Received: 11/17/00  
% Moisture: not dec. Date Analyzed: 11/24/00  
GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0  
Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

Number TICs found: 0 (ug/L or ug/Kg) UG/L

| CAS NO. | COMPOUND NAME | RT | EST. CONC. | Q |
|---------|---------------|----|------------|---|
|---------|---------------|----|------------|---|

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1ST RES WELL

Lab Name: HIMCO LANDFILL Contract: CRL  
 Lab Code: 5-CRL Case No.: 20010009 SAS No.: \_\_\_\_\_ SDG No.: GCMS022  
 Matrix: (soil/water) WATER Lab Sample ID: 2001SK01S01  
 Sample wt/vol: 25.0 (g/ml) ML Lab File ID: 7C112211.D  
 Level: (low/med) LOW Date Received: 11/17/00  
 % Moisture: not dec. Date Analyzed: 11/22/00  
 GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

| CAS NO.    | COMPOUND                  | (ug/L or ug/kg) | UG/L | Q   |
|------------|---------------------------|-----------------|------|-----|
| 75-01-4    | Vinyl chloride            |                 | 1    | U   |
| 74-87-3    | Chloromethane             |                 | 1    | U   |
| 74-83-9    | Bromomethane              |                 | 1    | U   |
| 75-00-3    | Chloroethane              |                 | 1    | U   |
| 107-64-1   | Acrolein                  |                 | 10   | U   |
| 75-35-4    | 1,1-Dichloroethene        |                 | 1    | U   |
| 115-10-6   | Ethyl ether               |                 | 1    | U   |
| 75-71-8    | Dichlorofluoromethane     |                 | 1    | U   |
| 67-64-1    | Acetone                   |                 | 10   | U   |
| 75-15-0    | Carbon disulfide          |                 | 1    | U   |
| 75-09-2    | Methylene chloride        |                 | 1    | U   |
| 107-13-1   | Acrylonitrile             |                 | 10   | U   |
| 156-60-5   | trans-1,2-Dichloroethene  |                 | 1    | U   |
| 75-34-3    | 1,1-Dichloroethane        |                 | 1    | U   |
| 78-93-3    | 2-Butanone                |                 | 10   | U   |
| 156-59-2   | cis-1,2-Dichloroethene    |                 | 1    | U   |
| 594-20-7   | 2,2-Dichloropropane       |                 | 2    | U   |
| 74-97-5    | Bromochloromethane        |                 | 1    | U   |
| 67-66-3    | Chloroform                |                 | 1    | U   |
| 71-55-6    | 1,1,1-Trichloroethane     |                 | 1    | U   |
| 563-58-6   | 1,1-Dichloropropene       |                 | 1    | U   |
| 56-23-5    | Carbon tetrachloride      |                 | 1    | U   |
| 107-06-2   | 1,2-Dichloroethane        |                 | 1    | U   |
| 71-43-2    | Benzene                   |                 | 1    | U   |
| 79-01-6    | Trichloroethene           |                 | 1    | U   |
| 78-87-5    | 1,2-Dichloropropane       |                 | 1    | U   |
| 75-27-4    | Bromodichloromethane      |                 | 1    | U   |
| 10061-01-5 | cis-1,3-Dichloropropene   |                 | 1    | U   |
| 108-10-1   | 4-Methyl-2-pentanone      |                 | 5    | U   |
| 108-88-3   | Toluene                   |                 | 1    | U   |
| 10061-02-6 | trans-1,3-Dichloropropene |                 | 2    | U   |
| 110-75-8   | 2-Chloroethyl vinyl ether |                 | 5    | U R |
| 79-00-5    | 1,1,2-Trichloroethane     |                 | 1    | U   |
| 142-28-9   | 1,3-Dichloropropane       |                 | 1    | U   |
| 127-18-4   | Tetrachloroethene         |                 | 1    | U   |
| 591-78-6   | 2-Hexanone                |                 | 2    | U   |
| 124-48-1   | Dibromochloromethane      |                 | 1    | U   |
| 106-93-4   | 1,2-Dibromoethane         |                 | 1    | U   |
| 108-90-7   | Chlorobenzene             |                 | 1    | U   |

11/22/00  
114

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1ST RES WELL

Lab Name: HIMCO LANDFILL Contract: CRL  
 Lab Code: 5-CRL Case No.: 20010009 SAS No.: \_\_\_\_\_ SDG No.: GCMS022  
 Matrix: (soil/water) WATER Lab Sample ID: 2001SK01S01  
 Sample wt/vol: 25.0 (g/ml) ML Lab File ID: 7C112211.D  
 Level: (low/med) LOW Date Received: 11/17/00  
 % Moisture: not dec. Date Analyzed: 11/22/00  
 GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

| CAS NO.    | COMPOUND                    | (ug/L or ug/Kg) | UG/L | Q   |
|------------|-----------------------------|-----------------|------|-----|
| 630-20-6   | 1,1,1,2-Tetrachloroethane   |                 | 1    | U   |
| 100-41-4   | Ethylbenzene                |                 | 1    | U   |
| 1083836423 | m- &/or p-Xylene            |                 | 1    | U   |
| 95-47-6    | o-Xylene                    |                 | 1    | U   |
| 100-42-5   | Styrene                     |                 | 1    | U   |
| 75-25-2    | Bromoform                   |                 | 1    | U   |
| 98-82-8    | Isopropylbenzene            |                 | 1    | U   |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   |                 | 1    | U   |
| 96-18-4    | 1,2,3-Trichloropropane      |                 | 1    | U   |
| 108-86-1   | Bromobenzene                |                 | 1    | U   |
| 103-65-1   | n-Propylbenzene             |                 | 1    | U   |
| 95-49-8    | 2-Chlorotoluene             |                 | 1    | U   |
| 106-43-4   | 4-Chlorotoluene             |                 | 1    | U   |
| 108-67-8   | 1,3,5-Trimethylbenzene      |                 | 1    | U   |
| 98-06-6    | tert-Butylbenzene           |                 | 1    | U   |
| 95-63-6    | 1,2,4-Trimethylbenzene      |                 | 1    | U   |
| 135-98-8   | sec-Butylbenzene            |                 | 1    | U   |
| 99-87-6    | p-Isopropyltoluene          |                 | 1    | U   |
| 541-73-1   | 1,3-Dichlorobenzene         |                 | 1    | U   |
| 106-46-7   | 1,4-Dichlorobenzene         |                 | 1    | U   |
| 104-51-8   | n-Butylbenzene              |                 | 1    | U   |
| 95-50-1    | 1,2-Dichlorobenzene         |                 | 1    | U   |
| 96-12-8    | 1,2-Dibromo-3-chloropropane |                 | 1    | U   |
| 120-82-1   | 1,2,4-Trichlorobenzene      |                 | 1    | U   |
| 87-68-3    | Hexachlorobutadiene         |                 | 1    | U   |
| 91-20-3    | Naphthalene                 |                 | 1    | U J |
| 87-61-6    | 1,2,3-Trichlorobenzene      |                 | 1    | U   |

1E  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

1ST RES WELL

Lab Name: HIMCO LANDFILL Contract: CRL  
Lab Code: 5-CRL Case No.: 20010009 SAS No.: \_\_\_\_\_ SDG No.: GCMS022  
Matrix: (soil/water) WATER Lab Sample ID: 2001SK01S01  
Sample wt/vol: 25.0 (g/ml) ML Lab File ID: 7C112211.D  
Level: (low/med) LOW Date Received: 11/17/00  
% Moisture: not dec. \_\_\_\_\_ Date Analyzed: 11/22/00  
GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0  
Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

Number TICs found: 0 (ug L or ug/Kg) UG/L

| CAS NO. | COMPOUND NAME | RT | EST. CONC. | Q |
|---------|---------------|----|------------|---|
|---------|---------------|----|------------|---|

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Summary  
2ND RES WELL

7/20/00

Lab Name: HIMCO LANDFILL Contract: CRL  
 Lab Code: 5-CRL Case No.: 20010009 SAS No.: \_\_\_\_\_ SDG No.: GCMS022  
 Matrix: (soil/water) WATER Lab Sample ID: 2001SK01S02  
 Sample wt/vol: 25.0 (g/ml) ML Lab File ID: 7C112212.D  
 Level: (low/med) LOW Date Received: 11/17/00  
 % Moisture: not dec. Date Analyzed: 11/22/00  
 GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

| CAS NO.    | COMPOUND                  | (ug/L or ug/Kg) | UG/L  | Q  |
|------------|---------------------------|-----------------|-------|----|
| 75-01-4    | Vinyl chloride            |                 | 1     | U  |
| 74-87-3    | Chloromethane             |                 | 1     | U  |
| 74-83-9    | Bromomethane              |                 | 1     | U  |
| 75-00-3    | Chloroethane              |                 | 1     | U  |
| 107-64-1   | Acrolein                  |                 | 10    | U  |
| 75-35-4    | 1,1-Dichloroethene        |                 | 1     | U  |
| 115-10-6   | Ethyl ether               |                 | 26 30 | ED |
| 75-71-8    | Dichlorofluoromethane     |                 | 5     |    |
| 67-64-1    | Acetone                   |                 | 10    | U  |
| 75-15-0    | Carbon disulfide          |                 | 1     | U  |
| 75-09-2    | Methylene chloride        |                 | 1     | U  |
| 107-13-1   | Acrylonitrile             |                 | 10    | U  |
| 156-60-5   | trans-1,2-Dichloroethene  |                 | 1     | U  |
| 75-34-3    | 1,1-Dichloroethane        |                 | 4     |    |
| 78-93-3    | 2-Butanone                |                 | 10    | U  |
| 156-59-2   | cis-1,2-Dichloroethene    |                 | 2     |    |
| 594-20-7   | 2,2-Dichloropropane       |                 | 2     | U  |
| 74-97-5    | Bromochloromethane        |                 | 1     | U  |
| 67-66-3    | Chloroform                |                 | 1     | U  |
| 71-55-6    | 1,1,1-Trichloroethane     |                 | 1     | U  |
| 563-58-6   | 1,1-Dichloropropene       |                 | 1     | U  |
| 56-23-5    | Carbon tetrachloride      |                 | 1     | U  |
| 107-06-2   | 1,2-Dichloroethane        |                 | 1     |    |
| 71-43-2    | Benzene                   |                 | 1     | U  |
| 79-01-6    | Trichloroethene           |                 | 1     | U  |
| 78-87-5    | 1,2-Dichloropropane       |                 | 8     |    |
| 75-27-4    | Bromodichloromethane      |                 | 1     | U  |
| 10061-01-5 | cis-1,3-Dichloropropene   |                 | 1     | U  |
| 108-10-1   | 4-Methyl-2-pentanone      |                 | 5     | U  |
| 108-88-3   | Toluene                   |                 | 1     | U  |
| 10061-02-6 | trans-1,3-Dichloropropene |                 | 2     | U  |
| 110-75-8   | 2-Chloroethyl vinyl ether |                 | 5     | UR |
| 79-00-5    | 1,1,2-Trichloroethane     |                 | 1     | U  |
| 142-28-9   | 1,3-Dichloropropane       |                 | 1     | U  |
| 127-18-4   | Tetrachloroethene         |                 | 1     | U  |
| 591-78-6   | 2-Hexanone                |                 | 2     | U  |
| 124-48-1   | Dibromochloromethane      |                 | 1     | U  |
| 106-93-4   | 1,2-Dibromoethane         |                 | 1     | U  |
| 108-90-7   | Chlorobenzene             |                 | 1     | U  |

MA  
11/22/00  
MA

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SUMMARY  
2ND RES WELL

Lab Name: HIMCO LANDFILL Contract: CRL  
 Lab Code: 5-CRL Case No.: 20010009 SAS No.: \_\_\_\_\_ SDG No.: GCMS022  
 Matrix: (soil/water) WATER Lab Sample ID: 2001SK01S02  
 Sample wt/vol: 25.0 (g/ml) ML Lab File ID: 7C112212.D  
 Level: (low/med) LOW Date Received: 11/17/00  
 % Moisture: not dec. Date Analyzed: 11/22/00  
 GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

| CAS NO.    | COMPOUND                    | (ug/L or ug/Kg) | UG/L | Q |
|------------|-----------------------------|-----------------|------|---|
| 630-20-6   | 1,1,1,2-Tetrachloroethane   |                 | 1    | U |
| 100-41-4   | Ethylbenzene                |                 | 1    | U |
| 1083836423 | m- &/or p-Xylene            |                 | 1    | U |
| 95-47-6    | o-Xylene                    |                 | 1    | U |
| 100-42-5   | Styrene                     |                 | 1    | U |
| 75-25-2    | Bromoform                   |                 | 1    | U |
| 98-82-8    | Isopropylbenzene            |                 | 1    | U |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   |                 | 1    | U |
| 96-18-4    | 1,2,3-Trichloropropane      |                 | 1    | U |
| 108-86-1   | Bromobenzene                |                 | 1    | U |
| 103-65-1   | n-Propylbenzene             |                 | 1    | U |
| 95-49-8    | 2-Chlorotoluene             |                 | 1    | U |
| 106-43-4   | 4-Chlorotoluene             |                 | 1    | U |
| 108-67-8   | 1,3,5-Trimethylbenzene      |                 | 1    | U |
| 98-06-6    | tert-Butylbenzene           |                 | 1    | U |
| 95-63-6    | 1,2,4-Trimethylbenzene      |                 | 1    | U |
| 135-98-8   | sec-Butylbenzene            |                 | 1    | U |
| 99-87-6    | p-Isopropyltoluene          |                 | 1    | U |
| 541-73-1   | 1,3-Dichlorobenzene         |                 | 1    | U |
| 106-46-7   | 1,4-Dichlorobenzene         |                 | 1    | U |
| 104-51-8   | n-Butylbenzene              |                 | 1    | U |
| 95-50-1    | 1,2-Dichlorobenzene         |                 | 1    | U |
| 96-12-8    | 1,2-Dibromo-3-chloropropane |                 | 1    | U |
| 120-82-1   | 1,2,4-Trichlorobenzene      |                 | 1    | U |
| 87-68-3    | Hexachlorobutadiene         |                 | 1    | U |
| 91-20-3    | Naphthalene                 |                 | 1    | U |
| 87-61-6    | 1,2,3-Trichlorobenzene      |                 | 1    | U |

1E  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

**SUMMARY**  
**2ND RES WELL**

Lab Name: HIMCO LANDFILL Contract: CRL  
Lab Code: 5-CRL Case No.: 20010009 SAS No.: \_\_\_\_\_ SDG No.: GCMS022  
Matrix: (soil/water) WATER Lab Sample ID: 2001SK01S02  
Sample wt/vol: 25.0 (g/ml) ML Lab File ID: 7C112212.D  
Level: (low/med) LOW Date Received: 11/17/00  
% Moisture: not dec. \_\_\_\_\_ Date Analyzed: 11/22/00  
GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0  
Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

Number TICs found: 0 (ug/L or ug/Kg) UG/L

| CAS NO. | COMPOUND NAME | RT | EST. CONC. | Q |
|---------|---------------|----|------------|---|
|---------|---------------|----|------------|---|

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

*SUMMARY*  
DUPL OF S02

Lab Name: HIMCO LANDFILL Contract: CRL  
 Lab Code: 5-CRL Case No.: 20010009 SAS No.: \_\_\_\_\_ SDG No.: GCMS022  
 Matrix: (soil/water) WATER Lab Sample ID: 2001SK01D02  
 Sample wt/vol: 25.0 (g/ml) ML Lab File ID: 7C112213.D  
 Level: (low/med) LOW Date Received: 11/17/00  
 % Moisture: not dec. Date Analyzed: 11/22/00  
 GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

| CAS NO.    | COMPOUND                  | (ug/L or ug/Kg) | UG/L | Q  |
|------------|---------------------------|-----------------|------|----|
| 75-01-4    | Vinyl chloride            |                 | 1    | U  |
| 74-87-3    | Chloromethane             |                 | 1    | U  |
| 74-83-9    | Bromomethane              |                 | 1    | U  |
| 75-00-3    | Chloroethane              |                 | 1    | U  |
| 107-64-1   | Acrolein                  |                 | 10   | U  |
| 75-35-4    | 1,1-Dichloroethene        |                 | 1    | U  |
| 115-10-6   | Ethyl ether               |                 | 31   | ND |
| 75-71-8    | Dichlorofluoromethane     |                 | 6    |    |
| 67-64-1    | Acetone                   |                 | 10   | U  |
| 75-15-0    | Carbon disulfide          |                 | 1    | U  |
| 75-09-2    | Methylene chloride        |                 | 1    | U  |
| 107-13-1   | Acrylonitrile             |                 | 10   | U  |
| 156-60-5   | trans-1,2-Dichloroethene  |                 | 1    | U  |
| 75-34-3    | 1,1-Dichloroethane        |                 | 4    |    |
| 78-93-3    | 2-Butanone                |                 | 10   | U  |
| 156-59-2   | cis-1,2-Dichloroethene    |                 | 3    |    |
| 594-20-7   | 2,2-Dichloropropane       |                 | 2    | U  |
| 74-97-5    | Bromochloromethane        |                 | 1    | U  |
| 67-66-3    | Chloroform                |                 | 1    | U  |
| 71-55-6    | 1,1,1-Trichloroethane     |                 | 1    | U  |
| 563-58-6   | 1,1-Dichloropropene       |                 | 1    | U  |
| 56-23-5    | Carbon tetrachloride      |                 | 1    | U  |
| 107-06-2   | 1,2-Dichloroethane        |                 | 1    |    |
| 71-43-2    | Benzene                   |                 | 1    | U  |
| 79-01-6    | Trichloroethene           |                 | 1    | U  |
| 78-87-5    | 1,2-Dichloropropane       |                 | 8    |    |
| 75-27-4    | Bromodichloromethane      |                 | 1    | U  |
| 10061-01-5 | cis-1,3-Dichloropropene   |                 | 1    | U  |
| 108-10-1   | 4-Methyl-2-pentanone      |                 | 5    | U  |
| 108-88-3   | Toluene                   |                 | 1    | U  |
| 10061-02-6 | trans-1,3-Dichloropropene |                 | 2    | U  |
| 110-75-8   | 2-Chloroethyl vinyl ether |                 | 5    | UR |
| 79-00-5    | 1,1,2-Trichloroethane     |                 | 1    | U  |
| 142-28-9   | 1,3-Dichloropropane       |                 | 1    | U  |
| 127-18-4   | Tetrachloroethene         |                 | 1    | U  |
| 591-78-6   | 2-Hexanone                |                 | 2    | U  |
| 124-48-1   | Dibromochloromethane      |                 | 1    | U  |
| 106-93-4   | 1,2-Dibromoethane         |                 | 1    | U  |
| 108-90-7   | Chlorobenzene             |                 | 1    | U  |

*MA*  
*11/22/00*

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

5/11/00  
DUPL OF S02

Lab Name: HIMCO LANDFILL Contract: CRL  
 Lab Code: 5-CRL Case No.: 20010009 SAS No.: \_\_\_\_\_ SDG No.: GCMS022  
 Matrix: (soil/water) WATER Lab Sample ID: 2001SK01D02  
 Sample wt/vol: 25.0 (g/ml) ML Lab File ID: 7C112213.D  
 Level: (low/med) LOW Date Received: 11/17/00  
 % Moisture: not dec. Date Analyzed: 11/22/00  
 GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

| CAS NO.    | COMPOUND                    | (ug/L or ug/Kg) | UG/L | Q |
|------------|-----------------------------|-----------------|------|---|
| 630-20-6   | 1,1,1,2-Tetrachloroethane   |                 | 1    | U |
| 100-41-4   | Ethylbenzene                |                 | 1    | U |
| 1083836423 | m- &/or p-Xylene            |                 | 1    | U |
| 95-47-6    | o-Xylene                    |                 | 1    | U |
| 100-42-5   | Styrene                     |                 | 1    | U |
| 75-25-2    | Bromoform                   |                 | 1    | U |
| 98-82-8    | Isopropylbenzene            |                 | 1    | U |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   |                 | 1    | U |
| 96-18-4    | 1,2,3-Trichloropropane      |                 | 1    | U |
| 108-86-1   | Bromobenzene                |                 | 1    | U |
| 103-65-1   | n-Propylbenzene             |                 | 1    | U |
| 95-49-8    | 2-Chlorotoluene             |                 | 1    | U |
| 106-43-4   | 4-Chlorotoluene             |                 | 1    | U |
| 108-67-8   | 1,3,5-Trimethylbenzene      |                 | 1    | U |
| 98-06-6    | tert-Butylbenzene           |                 | 1    | U |
| 95-63-6    | 1,2,4-Trimethylbenzene      |                 | 1    | U |
| 135-98-8   | sec-Butylbenzene            |                 | 1    | U |
| 99-87-6    | p-Isopropyltoluene          |                 | 1    | U |
| 541-73-1   | 1,3-Dichlorobenzene         |                 | 1    | U |
| 106-46-7   | 1,4-Dichlorobenzene         |                 | 1    | U |
| 104-51-8   | n-Butylbenzene              |                 | 1    | U |
| 95-50-1    | 1,2-Dichlorobenzene         |                 | 1    | U |
| 96-12-8    | 1,2-Dibromo-3-chloropropane |                 | 1    | U |
| 120-82-1   | 1,2,4-Trichlorobenzene      |                 | 1    | U |
| 87-68-3    | Hexachlorobutadiene         |                 | 1    | U |
| 91-20-3    | Naphthalene                 |                 | 1    | U |
| 87-61-6    | 1,2,3-Trichlorobenzene      |                 | 1    | U |

1E  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

*SUMMARY*  
DUPL OF S02

Lab Name: HIMCO LANDFILL Contract: CRL  
Lab Code: 5-CRL Case No.: 20010009 SAS No.: \_\_\_\_\_ SDG No.: GCMS022  
Matrix: (soil/water) WATER Lab Sample ID: 2001SK01D02  
Sample wt/vol: 25.0 (g/ml) ML Lab File ID: 7C112213.D  
Level: (low/med) LOW Date Received: 11/17/00  
% Moisture: not dec. \_\_\_\_\_ Date Analyzed: 11/22/00  
GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0  
Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

Number TICs found: 0 (ug/L or ug/Kg) UG/L

| CAS NO. | COMPOUND NAME | RT | EST. CONC. | Q |
|---------|---------------|----|------------|---|
|---------|---------------|----|------------|---|

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

*Summary*  
MW116A

Lab Name: HIMCO LANDFILL Contract: CRL  
 Lab Code: 5-CRL Case No.: 20010009 SAS No.: \_\_\_\_\_ SDG No.: GCMS022  
 Matrix: (soil/water) WATER Lab Sample ID: 2001SK01S03  
 Sample wt/vol: 25.0 (g/ml) ML Lab File ID: 7C112214.D  
 Level: (low/med) LOW Date Received: 11/17/00  
 % Moisture: not dec. Date Analyzed: 11/22/00  
 GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

| CAS NO.    | COMPOUND                  | (ug/L or ug/Kg) | UG/L    | Q  |
|------------|---------------------------|-----------------|---------|----|
| 75-01-4    | Vinyl chloride            |                 | 1       | U  |
| 74-87-3    | Chloromethane             |                 | 1       | U  |
| 74-83-9    | Bromomethane              |                 | 1       | U  |
| 75-00-3    | Chloroethane              |                 | 1       | U  |
| 107-64-1   | Acrolein                  |                 | 10      | U  |
| 75-35-4    | 1,1-Dichloroethene        |                 | 1       | U  |
| 115-10-6   | Ethyl ether               |                 | 100 120 | ED |
| 75-71-8    | Dichlorofluoromethane     |                 | 10      |    |
| 67-64-1    | Acetone                   |                 | 10      | U  |
| 75-15-0    | Carbon disulfide          |                 | 1       | U  |
| 75-09-2    | Methylene chloride        |                 | 1       | U  |
| 107-13-1   | Acrylonitrile             |                 | 10      | U  |
| 156-60-5   | trans-1,2-Dichloroethene  |                 | 1       | U  |
| 75-34-3    | 1,1-Dichloroethane        |                 | 9       |    |
| 78-93-3    | 2-Butanone                |                 | 10      | U  |
| 156-59-2   | cis-1,2-Dichloroethene    |                 | 1       | U  |
| 594-20-7   | 2,2-Dichloropropane       |                 | 2       | U  |
| 74-97-5    | Bromochloromethane        |                 | 1       | U  |
| 67-66-3    | Chloroform                |                 | 1       | U  |
| 71-55-6    | 1,1,1-Trichloroethane     |                 | 1       | U  |
| 563-58-6   | 1,1-Dichloropropene       |                 | 1       | U  |
| 56-23-3    | Carbon tetrachloride      |                 | 1       | U  |
| 107-06-2   | 1,2-Dichloroethane        |                 | 1       | U  |
| 71-43-2    | Benzene                   |                 | 8       |    |
| 79-01-6    | Trichloroethene           |                 | 1       | U  |
| 78-87-5    | 1,2-Dichloropropane       |                 | 2       |    |
| 75-27-4    | Bromodichloromethane      |                 | 1       | U  |
| 10061-01-5 | cis-1,3-Dichloropropene   |                 | 1       | U  |
| 108-10-1   | 4-Methyl-2-pentanone      |                 | 5       | U  |
| 108-88-3   | Toluene                   |                 | 1       | U  |
| 10061-02-6 | trans-1,3-Dichloropropene |                 | 2       | U  |
| 110-75-8   | 2-Chloroethyl vinyl ether |                 | 3       | UR |
| 79-00-5    | 1,1,2-Trichloroethane     |                 | 1       | U  |
| 142-28-9   | 1,3-Dichloropropane       |                 | 1       | U  |
| 127-18-4   | Tetrachloroethene         |                 | 1       | U  |
| 591-78-6   | 2-Hexanone                |                 | 2       | U  |
| 124-48-1   | Dibromochloromethane      |                 | 1       | U  |
| 106-93-4   | 1,2-Dibromoethane         |                 | 1       | U  |
| 108-90-7   | Chlorobenzene             |                 | 1       | U  |

*MF*  
*11/28/00*

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

*SILVIA RY*  
MW116A

Lab Name: HIMCO LANDFILL Contract: CRL  
 Lab Code: 5-CRL Case No.: 20010009 SAS No.: \_\_\_\_\_ SDG No.: GCMS022  
 Matrix: (soil/water) WATER Lab Sample ID: 2001SK01S03  
 Sample wt/vol: 25.0 (g/ml) ML Lab File ID: 7C112214.D  
 Level: (low/med) LOW Date Received: 11/17/00  
 % Moisture: not dec. Date Analyzed: 11/22/00  
 GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

| CAS NO.    | COMPOUND                    | (ug/L or ug/Kg) | UG/L | Q              |
|------------|-----------------------------|-----------------|------|----------------|
| 630-20-6   | 1,1,1,2-Tetrachloroethane   |                 | 1    | U              |
| 100-41-4   | Ethylbenzene                |                 | 1    | U              |
| 1083836423 | m- &/or p-Xylene            |                 | 1    | U              |
| 95-47-6    | o-Xylene                    |                 | 1    | U              |
| 100-42-5   | Styrene                     |                 | 1    | U              |
| 75-25-2    | Bromoform                   |                 | 1    | U              |
| 98-82-8    | Isopropylbenzene            |                 | 1    | U              |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   |                 | 1    | U              |
| 96-18-4    | 1,2,3-Trichloropropane      |                 | 1    | U              |
| 108-86-1   | Bromobenzene                |                 | 1    | U              |
| 103-65-1   | n-Propylbenzene             |                 | 1    | U              |
| 95-49-8    | 2-Chlorotoluene             |                 | 1    | U              |
| 106-43-4   | 4-Chlorotoluene             |                 | 1    | U              |
| 108-67-8   | 1,3,5-Trimethylbenzene      |                 | 1    | U              |
| 98-06-6    | tert-Butylbenzene           |                 | 1    | U              |
| 95-63-6    | 1,2,4-Trimethylbenzene      |                 | 1    | U              |
| 135-98-8   | sec-Butylbenzene            |                 | 1    | U              |
| 99-87-6    | p-Isopropyltoluene          |                 | 1    | U              |
| 541-73-1   | 1,3-Dichlorobenzene         |                 | 1    | U              |
| 106-46-7   | 1,4-Dichlorobenzene         |                 | 1    | U              |
| 104-51-8   | n-Butylbenzene              |                 | 1    | U              |
| 95-50-1    | 1,2-Dichlorobenzene         |                 | 1    | U              |
| 96-12-8    | 1,2-Dibromo-3-chloropropane |                 | 1    | U              |
| 120-82-1   | 1,2,4-Trichlorobenzene      |                 | 1    | U              |
| 87-68-3    | Hexachlorobutadiene         |                 | 1    | U              |
| 91-20-3    | Naphthalene                 |                 | 1    | U <sup>T</sup> |
| 87-61-6    | 1,2,3-Trichlorobenzene      |                 | 1    | U              |

1E  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

*SUMMARY*  
MW116A

Lab Name: HIMCO LANDFILL Contract: CRL  
 Lab Code: 5-CRL Case No.: 20010009 SAS No.: \_\_\_\_\_ SDG No.: GCMS022  
 Matrix: (soil/water) WATER Lab Sample ID: 2001SK01S03  
 Sample wt/vol: 25.0 (g/ml) ML Lab File ID: 7C112214.D  
 Level: (low/med) LOW Date Received: 11/17/00  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 11/22/00  
 GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

Number TICs found: 1 (ug/L or ug/Kg) UG/L

| CAS NO.        | COMPOUND NAME                     | RT   | EST. CONC. | Q  |
|----------------|-----------------------------------|------|------------|----|
| 1. 000593-70-4 | Methane, chlorofluoro- (CAS) \$\$ | 3.39 | 4          | JN |

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SUMMARY  
101A

Lab Name: HIMCO LANDFILL Contract: CRL  
 Lab Code: 5-CRL Case No.: 20010009 SAS No.: \_\_\_\_\_ SDG No.: GCMS022  
 Matrix: (soil/water) WATER Lab Sample ID: 2001SK01S04  
 Sample wt/vol: 25.0 (g/ml) ML Lab File ID: 7C112215.D  
 Level: (low/med) LOW Date Received: 11/17/00  
 % Moisture: not dec. Date Analyzed: 11/22/00  
 GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

| CAS NO.    | COMPOUND                  | (ug/L or ug/Kg) | UG/L             | Q  |
|------------|---------------------------|-----------------|------------------|----|
| 75-01-4    | Vinyl chloride            |                 | 1                | U  |
| 74-87-3    | Chloromethane             |                 | 1                | U  |
| 74-83-9    | Bromomethane              |                 | 1                | U  |
| 75-00-3    | Chloroethane              |                 | 1                |    |
| 107-64-1   | Acrolein                  |                 | 10               | U  |
| 75-35-4    | 1,1-Dichloroethene        |                 | 1                | U  |
| 115-10-6   | Ethyl ether               |                 | 49 <del>48</del> | ED |
| 75-71-8    | Dichlorofluoromethane     |                 | 6                |    |
| 67-64-1    | Acetone                   |                 | 10               | U  |
| 75-15-0    | Carbon disulfide          |                 | 1                | U  |
| 75-09-2    | Methylene chloride        |                 | 1                | U  |
| 107-13-1   | Acrylonitrile             |                 | 10               | U  |
| 156-60-5   | trans-1,2-Dichloroethene  |                 | 1                | U  |
| 75-34-3    | 1,1-Dichloroethane        |                 | 14               |    |
| 78-93-3    | 2-Butanone                |                 | 10               | U  |
| 156-59-2   | cis-1,2-Dichloroethene    |                 | 1                | U  |
| 594-20-7   | 2,2-Dichloropropane       |                 | 2                | U  |
| 74-97-5    | Bromochloromethane        |                 | 1                | U  |
| 67-66-3    | Chloroform                |                 | 1                | U  |
| 71-55-6    | 1,1,1-Trichloroethane     |                 | 1                | U  |
| 563-58-6   | 1,1-Dichloropropene       |                 | 1                | U  |
| 56-23-5    | Carbon tetrachloride      |                 | 1                | U  |
| 107-06-2   | 1,2-Dichloroethane        |                 | 1                | U  |
| 71-43-2    | Benzene                   |                 | 2                |    |
| 79-01-6    | Trichloroethene           |                 | 1                | U  |
| 78-87-5    | 1,2-Dichloropropane       |                 | 1                | U  |
| 75-27-4    | Bromodichloromethane      |                 | 1                | U  |
| 10061-01-5 | cis-1,3-Dichloropropene   |                 | 1                | U  |
| 108-10-1   | 4-Methyl-2-pentanone      |                 | 5                | U  |
| 108-88-3   | Toluene                   |                 | 1                | U  |
| 10061-02-6 | trans-1,3-Dichloropropene |                 | 2                | U  |
| 110-75-8   | 2-Chloroethyl vinyl ether |                 | 5                | UR |
| 79-00-5    | 1,1,2-Trichloroethane     |                 | 1                | U  |
| 142-28-9   | 1,3-Dichloropropane       |                 | 1                | U  |
| 127-18-4   | Tetrachloroethene         |                 | 1                | U  |
| 591-78-6   | 2-Hexanone                |                 | 2                | U  |
| 124-48-1   | Dibromochloromethane      |                 | 1                | U  |
| 106-93-4   | 1,2-Dibromoethane         |                 | 1                | U  |
| 108-90-7   | Chlorobenzene             |                 | 1                | U  |

*ml*  
*11/22/00*  
*mf*

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

*SUMMARY*  
101A

Lab Name: HIMCO LANDFILL Contract: CRL  
 Lab Code: 5-CRL Case No.: 20010009 SAS No.: \_\_\_\_\_ SDG No.: GCMS022  
 Matrix: (soil/water) WATER Lab Sample ID: 2001SK01S04  
 Sample wt/vol: 25.0 (g/ml) ML Lab File ID: 7C112215.D  
 Level: (low/med) LOW Date Received: 11/17/00  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 11/22/00  
 GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

| CAS NO.    | COMPOUND                    | (ug/L or ug/Kg) | UG/L | Q |
|------------|-----------------------------|-----------------|------|---|
| 630-20-6   | 1,1,1,2-Tetrachloroethane   |                 | 1    | U |
| 100-41-4   | Ethylbenzene                |                 | 1    | U |
| 1083836423 | m- &/or p-Xylene            |                 | 1    | U |
| 95-47-6    | o-Xylene                    |                 | 1    | U |
| 100-42-5   | Styrene                     |                 | 1    | U |
| 75-25-2    | Bromoform                   |                 | 1    | U |
| 98-82-8    | Isopropylbenzene            |                 | 1    | U |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   |                 | 1    | U |
| 96-18-4    | 1,2,3-Trichloropropane      |                 | 1    | U |
| 108-86-1   | Bromobenzene                |                 | 1    | U |
| 103-65-1   | n-Propylbenzene             |                 | 1    | U |
| 95-49-8    | 2-Chlorotoluene             |                 | 1    | U |
| 106-43-4   | 4-Chlorotoluene             |                 | 1    | U |
| 108-67-8   | 1,3,5-Trimethylbenzene      |                 | 1    | U |
| 98-06-6    | tert-Butylbenzene           |                 | 1    | U |
| 95-63-6    | 1,2,4-Trimethylbenzene      |                 | 1    | U |
| 135-98-8   | sec-Butylbenzene            |                 | 1    | U |
| 99-87-6    | p-Isopropyltoluene          |                 | 1    | U |
| 541-73-1   | 1,3-Dichlorobenzene         |                 | 1    | U |
| 106-46-7   | 1,4-Dichlorobenzene         |                 | 1    | U |
| 104-51-8   | n-Butylbenzene              |                 | 1    | U |
| 95-50-1    | 1,2-Dichlorobenzene         |                 | 1    | U |
| 96-12-8    | 1,2-Dibromo-3-chloropropane |                 | 1    | U |
| 120-82-1   | 1,2,4-Trichlorobenzene      |                 | 1    | U |
| 87-68-3    | Hexachlorobutadiene         |                 | 1    | U |
| 91-20-3    | Naphthalene                 |                 | 1    | U |
| 87-61-6    | 1,2,3-Trichlorobenzene      |                 | 1    | U |

1E  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

*Summary*  
101A

Lab Name: HIMCO LANDFILL Contract: CRL  
 Lab Code: 5-CRL Case No.: 20010009 SAS No.: \_\_\_\_\_ SDG No.: GCMS022  
 Matrix: (soil/water) WATER Lab Sample ID: 2001SK01S04  
 Sample wt/vol: 25.0 (g/ml) ML Lab File ID: 7C112215.D  
 Level: (low/med) LOW Date Received: 11/17/00  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 11/22/00  
 GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

(ug L or ug/Kg) UG/L

Number TICs found: 1

| CAS NO.        | COMPOUND NAME                     | RT   | EST. CONC. | Q  |
|----------------|-----------------------------------|------|------------|----|
| 1. 000593-70-4 | Methane, chlorofluoro- (CAS) \$\$ | 3.38 | 4          | JN |

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

**METHOD BLANK**

Lab Name: HIMCO LANDFILL Contract: CRL  
 Lab Code: 5-CRL Case No.: 20010009 SAS No.: \_\_\_\_\_ SDG No.: GCMS022  
 Matrix: (soil/water) WATER Lab Sample ID: 2001SK01R01  
 Sample wt/vol: 25.0 (g/ml) ML Lab File ID: 7C112216.D  
 Level: (low/med) LOW Date Received: 11/17/00  
 % Moisture: not dec. Date Analyzed: 11/22/00  
 GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

| CAS NO.    | COMPOUND                  | (ug/L or ug/Kg) | UG/L | Q   |
|------------|---------------------------|-----------------|------|-----|
| 75-01-4    | Vinyl chloride            |                 | 1    | U   |
| 74-87-3    | Chloromethane             |                 | 1    | U   |
| 74-83-9    | Bromomethane              |                 | 1    | U   |
| 75-00-3    | Chloroethane              |                 | 1    | U   |
| 107-64-1   | Acrolein                  |                 | 10   | U   |
| 75-35-4    | 1,1-Dichloroethene        |                 | 1    | U   |
| 115-10-6   | Ethyl ether               |                 | 1    | U   |
| 75-71-8    | Dichlorofluoromethane     |                 | 1    | U   |
| 67-64-1    | Acetone                   |                 | 10   | U   |
| 75-15-0    | Carbon disulfide          |                 | 1    | U   |
| 75-09-2    | Methylene chloride        |                 | 3    |     |
| 107-13-1   | Acrylonitrile             |                 | 10   | U   |
| 156-60-5   | trans-1,2-Dichloroethene  |                 | 1    | U   |
| 75-34-3    | 1,1-Dichloroethane        |                 | 1    | U   |
| 78-93-3    | 2-Butanone                |                 | 10   | U   |
| 156-59-2   | cis-1,2-Dichloroethene    |                 | 1    | U   |
| 594-20-7   | 2,2-Dichloropropane       |                 | 2    | U   |
| 74-97-5    | Bromochloromethane        |                 | 1    | U   |
| 67-66-3    | Chloroform                |                 | 5    |     |
| 71-55-6    | 1,1,1-Trichloroethane     |                 | 1    | U   |
| 563-58-6   | 1,1-Dichloropropene       |                 | 1    | U   |
| 56-23-5    | Carbon tetrachloride      |                 | 1    | U   |
| 107-06-2   | 1,2-Dichloroethane        |                 | 1    |     |
| 71-43-2    | Benzene                   |                 | 1    | U   |
| 79-01-6    | Trichloroethene           |                 | 1    | U   |
| 78-87-5    | 1,2-Dichloropropane       |                 | 1    | U   |
| 75-27-4    | Bromodichloromethane      |                 | 1    |     |
| 10061-01-5 | cis-1,3-Dichloropropene   |                 | 1    | U   |
| 108-10-1   | 4-Methyl-2-pentanone      |                 | 5    | U   |
| 108-88-3   | Toluene                   |                 | 1    | U   |
| 10061-02-6 | trans-1,3-Dichloropropene |                 | 2    | U   |
| 110-75-8   | 2-Chloroethyl vinyl ether |                 | 5    | U R |
| 79-00-5    | 1,1,2-Trichloroethane     |                 | 1    | U   |
| 142-28-9   | 1,3-Dichloropropane       |                 | 1    | U   |
| 127-18-4   | Tetrachloroethene         |                 | 1    | U   |
| 591-78-6   | 2-Hexanone                |                 | 2    | U   |
| 124-48-1   | Dibromochloromethane      |                 | 1    | U   |
| 106-93-4   | 1,2-Dibromoethane         |                 | 1    | U   |
| 108-90-7   | Chlorobenzene             |                 | 1    | U   |

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

**METHOD BLANK**

Lab Name: HIMCO LANDFILL Contract: CRL  
 Lab Code: 5-CRL Case No.: 20010009 SAS No.: \_\_\_\_\_ SDG No.: GCMS022  
 Matrix: (soil/water) WATER Lab Sample ID: 2001SK01R01  
 Sample wt/vol: 25.0 (g/ml) ML Lab File ID: 7C112216.D  
 Level: (low/med) LOW Date Received: 11/17/00  
 % Moisture: not dec. Date Analyzed: 11/22/00  
 GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

| CAS NO.    | COMPOUND                    | (ug/L or ug/Kg) | UG/L | Q |
|------------|-----------------------------|-----------------|------|---|
| 630-20-6   | 1,1,1,2-Tetrachloroethane   |                 | 1    | U |
| 100-41-4   | Ethylbenzene                |                 | 1    | U |
| 1083836423 | m- &/or p-Xylene            |                 | 1    | U |
| 95-47-6    | o-Xylene                    |                 | 1    | U |
| 100-42-5   | Styrene                     |                 | 1    | U |
| 75-25-2    | Bromoform                   |                 | 1    | U |
| 98-82-8    | Isopropylbenzene            |                 | 1    | U |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   |                 | 1    | U |
| 96-18-4    | 1,2,3-Trichloropropane      |                 | 1    | U |
| 108-86-1   | Bromobenzene                |                 | 1    | U |
| 103-65-1   | n-Propylbenzene             |                 | 1    | U |
| 95-49-8    | 2-Chlorotoluene             |                 | 1    | U |
| 106-43-4   | 4-Chlorotoluene             |                 | 1    | U |
| 108-67-8   | 1,3,5-Trimethylbenzene      |                 | 1    | U |
| 98-06-6    | tert-Butylbenzene           |                 | 1    | U |
| 95-63-6    | 1,2,4-Trimethylbenzene      |                 | 1    | U |
| 135-98-8   | sec-Butylbenzene            |                 | 1    | U |
| 99-87-6    | p-Isopropyltoluene          |                 | 1    | U |
| 541-73-1   | 1,3-Dichlorobenzene         |                 | 1    | U |
| 106-46-7   | 1,4-Dichlorobenzene         |                 | 1    | U |
| 104-51-8   | n-Butylbenzene              |                 | 1    | U |
| 95-50-1    | 1,2-Dichlorobenzene         |                 | 1    | U |
| 96-12-8    | 1,2-Dibromo-3-chloropropane |                 | 1    | U |
| 120-82-1   | 1,2,4-Trichlorobenzene      |                 | 1    | U |
| 87-68-3    | Hexachlorobutadiene         |                 | 1    | U |
| 91-20-3    | Naphthalene                 |                 | 1    | U |
| 87-61-6    | 1,2,3-Trichlorobenzene      |                 | 1    | U |

1E  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

**METHOD BLANK**

Lab Name: HIMCO LANDFILL Contract: CRL  
Lab Code: 5-CRL Case No.: 20010009 SAS No.: \_\_\_\_\_ SDG No.: GCMS022  
Matrix: (soil/water) WATER Lab Sample ID: 2001SK01R01  
Sample wt/vol: 25.0 (g/ml) ML Lab File ID: 7C112216.D  
Level: (low/med) LOW Date Received: 11/17/00  
% Moisture: not dec. \_\_\_\_\_ Date Analyzed: 11/22/00  
GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0  
Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

Number TICs found: 0 (ug/L or ug/Kg) UG/L

| CAS NO. | COMPOUND NAME | RT | EST. CONC. | Q |
|---------|---------------|----|------------|---|
|---------|---------------|----|------------|---|

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TRIP BLANK

Lab Name: HIMCO LANDFILL Contract: CRL  
 Lab Code: 5-CRL Case No.: 20010009 SAS No.: \_\_\_\_\_ SDG No.: GCMS022  
 Matrix: (soil/water) WATER Lab Sample ID: 2001SK01R02  
 Sample wt/vol: 25.0 (g/ml) ML Lab File ID: 7C112217.D  
 Level: (low/med) LOW Date Received: 11/17/00  
 % Moisture: not dec. \_\_\_\_\_ Date Analyzed: 11/22/00  
 GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

| CAS NO.    | COMPOUND                  | (ug/L or ug/Kg) | UG/L | Q |
|------------|---------------------------|-----------------|------|---|
| 75-01-4    | Vinyl chloride            |                 | 1    | U |
| 74-87-3    | Chloromethane             |                 | 1    | U |
| 74-83-9    | Bromomethane              |                 | 1    | U |
| 75-00-3    | Chloroethane              |                 | 1    | U |
| 107-64-1   | Acrolein                  |                 | 10   | U |
| 75-35-4    | 1,1-Dichloroethene        |                 | 1    | U |
| 115-10-6   | Ethyl ether               |                 | 1    | U |
| 75-71-8    | Dichlorofluoromethane     |                 | 1    | U |
| 67-64-1    | Acetone                   |                 | 10   | U |
| 75-15-0    | Carbon disulfide          |                 | 1    | U |
| 75-09-2    | Methylene chloride        |                 | 1    | U |
| 107-13-1   | Acrylonitrile             |                 | 10   | U |
| 156-60-5   | trans-1,2-Dichloroethene  |                 | 1    | U |
| 75-34-3    | 1,1-Dichloroethane        |                 | 1    | U |
| 78-93-3    | 2-Butanone                |                 | 10   | U |
| 156-59-2   | cis-1,2-Dichloroethene    |                 | 1    | U |
| 594-20-7   | 2,2-Dichloropropane       |                 | 2    | U |
| 74-97-5    | Bromochloromethane        |                 | 1    | U |
| 67-66-3    | Chloroform                |                 | 1    | U |
| 71-55-6    | 1,1,1-Trichloroethane     |                 | 1    | U |
| 563-58-6   | 1,1-Dichloropropene       |                 | 1    | U |
| 56-23-5    | Carbon tetrachloride      |                 | 1    | U |
| 107-06-2   | 1,2-Dichloroethane        |                 | 1    | U |
| 71-43-2    | Benzene                   |                 | 1    | U |
| 79-01-6    | Trichloroethene           |                 | 1    | U |
| 78-87-5    | 1,2-Dichloropropane       |                 | 1    | U |
| 75-27-4    | Bromodichloromethane      |                 | 1    | U |
| 10061-01-5 | cis-1,3-Dichloropropene   |                 | 1    | U |
| 108-10-1   | 4-Methyl-2-pentanone      |                 | 5    | U |
| 108-88-3   | Toluene                   |                 | 1    | U |
| 10061-02-6 | trans-1,3-Dichloropropene |                 | 2    | U |
| 110-75-8   | 2-Chloroethyl vinyl ether |                 | 5    | U |
| 79-00-5    | 1,1,2-Trichloroethane     |                 | 1    | U |
| 142-28-9   | 1,3-Dichloropropane       |                 | 1    | U |
| 127-18-4   | Tetrachloroethene         |                 | 1    | U |
| 591-78-6   | 2-Hexanone                |                 | 2    | U |
| 124-48-1   | Dibromochloromethane      |                 | 1    | U |
| 106-93-4   | 1,2-Dibromoethane         |                 | 1    | U |
| 108-90-7   | Chlorobenzene             |                 | 1    | U |

1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TRIP BLANK

Lab Name: HIMCO LANDFILL Contract: CRL  
 Lab Code: 5-CRL Case No.: 20010009 SAS No.: \_\_\_\_\_ SDG No.: GCMS022  
 Matrix: (soil/water) WATER Lab Sample ID: 2001SK01R02  
 Sample wt/vol: 25.0 (g/ml) ML Lab File ID: 7C112217.D  
 Level: (low/med) LOW Date Received: 11/17/00  
 % Moisture: not dec. Date Analyzed: 11/22/00  
 GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0  
 Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

| CAS NO.    | COMPOUND                    | (ug/L or ug/Kg) | UG/L | Q |
|------------|-----------------------------|-----------------|------|---|
| 630-20-6   | 1,1,1,2-Tetrachloroethane   |                 | 1    | U |
| 100-41-4   | Ethylbenzene                |                 | 1    | U |
| 1083836423 | m- &/or p-Xylene            |                 | 1    | U |
| 95-47-6    | o-Xylene                    |                 | 1    | U |
| 100-42-5   | Styrene                     |                 | 1    | U |
| 75-25-2    | Bromoform                   |                 | 1    | U |
| 98-82-8    | Isopropylbenzene            |                 | 1    | U |
| 79-34-5    | 1,1,2,2-Tetrachloroethane   |                 | 1    | U |
| 96-18-4    | 1,2,3-Trichloropropane      |                 | 1    | U |
| 108-86-1   | Bromobenzene                |                 | 1    | U |
| 103-65-1   | n-Propylbenzene             |                 | 1    | U |
| 95-49-8    | 2-Chlorotoluene             |                 | 1    | U |
| 106-43-4   | 4-Chlorotoluene             |                 | 1    | U |
| 108-67-8   | 1,3,5-Trimethylbenzene      |                 | 1    | U |
| 98-06-6    | tert-Butylbenzene           |                 | 1    | U |
| 95-63-6    | 1,2,4-Trimethylbenzene      |                 | 1    | U |
| 135-98-8   | sec-Butylbenzene            |                 | 1    | U |
| 99-87-6    | p-Isopropyltoluene          |                 | 1    | U |
| 541-73-1   | 1,3-Dichlorobenzene         |                 | 1    | U |
| 106-46-7   | 1,4-Dichlorobenzene         |                 | 1    | U |
| 104-51-8   | n-Butylbenzene              |                 | 1    | U |
| 95-50-1    | 1,2-Dichlorobenzene         |                 | 1    | U |
| 96-12-8    | 1,2-Dibromo-3-chloropropane |                 | 1    | U |
| 120-82-1   | 1,2,4-Trichlorobenzene      |                 | 1    | U |
| 87-68-3    | Hexachlorobutadiene         |                 | 1    | U |
| 91-20-3    | Naphthalene                 |                 | 1    | U |
| 87-61-6    | 1,2,3-Trichlorobenzene      |                 | 1    | U |

1E  
VOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

**TRIP BLANK**

Lab Name: HIMCO LANDFILL Contract: CRL  
Lab Code: 5-CRL Case No.: 20010009 SAS No.: \_\_\_\_\_ SDG No.: GCMS022  
Matrix: (soil/water) WATER Lab Sample ID: 2001SK01R02  
Sample wt/vol: 25.0 (g/ml) ML Lab File ID: 7C112217.D  
Level: (low/med) LOW Date Received: 11/17/00  
% Moisture: not dec. \_\_\_\_\_ Date Analyzed: 11/22/00  
GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.0  
Soil Extract Volume: \_\_\_\_\_ (uL) Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) UG/L  
Number TICs found: 0

| CAS NO. | COMPOUND NAME | RT | EST. CONC. | Q |
|---------|---------------|----|------------|---|
|---------|---------------|----|------------|---|



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 5 CENTRAL REGIONAL LABORATORY

536 SOUTH CLARK STREET

CHICAGO, ILLINOIS 60605

Date: DEC 19 2000

Subject: Review of Region 5 Data for HIMCO Landfill

From: Roger Rudinsky, Chemist *RR*  
Region 5 Central Regional Laboratory

To: *Gwen Massenburg*  
*SR-6J*

Attached are the results for Site: HIMCO Landfill

CRL Data Set Number: 20010009

for analyses of: ABNs

Results are reported for sample numbers: (List of sample numbers) 2001SK01S01- 2001SK01S04  
2001SK01S02MS, 2001SK01S02MSD, 2001SK01R01 and 2001SK01D02.

Results Status:

Acceptable for Use

Data Qualified, but Acceptable for use - For the compound data qualified UJ or J,  
please see the attached case narrative.

Data Unacceptable for Use

*Sylvia Griffin*

DEC 19 2000

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CRL Data Management Coordinator and Date Received

Date Transmitted: DEC 19 2000

Please have the US EPA project leader fill out the customer survey form on the Region 5 Intranet: <http://www.r5intra.epa.gov/crl/qa.html>, (← by clicking on this link, or call George Schupp, CRL Sample Coordinator, at 3-1226).

Please sign and date this form below and return it with any comments to:

Sylvia Griffin  
Data Management Coordinator  
Region 5 Central Regional Laboratory  
ML - 10C

---

Received by and Date

Comments:



## CASE NARRATIVE

DATE: December 18, 2000

PROJECT NAME: HIMCO LANDFILL - CRL Case #: 20010009  
Analysis of Acid/Base/Neutrals  
Organic Analytes (ABN)

ANALYST: Roger Rudinsky, Chemist *RR*

REVIEWERS: Babu Paruchuri, Chemist *BP*

### I. CASE DESCRIPTION:

The laboratory received 8 water samples from the subject site for ABN analysis. In addition to the routine target parameters, the laboratory analyzed the site samples for 2-hydroxybenzothiazole.

The samples were extracted by continuous liquid liquid and analyzed by GC/MS technique.

These samples were received at the laboratory in good condition.

### II. INSTRUMENT QUALITY CONTROLS:

1. Instrument Performance Check: The samples were analyzed on December 4<sup>th</sup>, 15<sup>th</sup> and 16<sup>th</sup>. IPCs using DFTPP were made on GC/MS to determine if EPA tuning criteria were met. The QC criteria are the same as those found in the Clean Water Act (CWA - NPDES SOP). All ions were within specifications.

2. Initial Calibration Check: An acceptable five point initial calibration (IC) curve (QC Criteria for IC: %RSD should be  $\leq 35\%$ ) is required for all target compounds before samples can be analyzed. Two IC curves were generated to analyze the site samples.

The first initial calibration data collected on December 4<sup>th</sup> was acceptable for all of the compounds except hexachlorocyclopentadiene, 3-nitroaniline and 2,4-dinitrophenol.

Two calibration points were dropped for benzoic acid, and pentachlorophenol. One calibration point was dropped for carbazole and 4-nitrophenol.

The Reporting Limits were changed to reflect the change resulting from dropping points.

The second initial calibration data collected on December 15<sup>th</sup> was acceptable for 2-hydroxybenzothiazole.

3. **Continuing Calibration Check:** An acceptable continuing calibration (CC - QC Criteria for CC: %D should be < 20%) is required for all target compounds before samples can be analyzed. Four CC check standards were analyzed to analyze the site samples.

The first continuing calibration data file (1C120402) was acceptable for all of the compounds except benzoic acid.

The second continuing calibration data file (1C120417) was acceptable for all of the compounds except benzoic acid, hexachlorocyclopentadiene, 2,4-dinitrophenol, 4-nitrophenol, pentachlorophenol and 3,3'-dichlorobenzidine.

The third and fourth continuing calibration data files were acceptable for 2-hydroxybenzothiazole.

4. **Internal Standard (IS) Area and Retention Time Summary:**

All samples met the internal standard (IS) area QC requirements. (QC Criteria for IS Area: internal standard areas of the samples should be - 50% to + 200% of the corresponding IS areas of the daily calibration standard).

All samples met the internal standard (IS) RT QC requirements. (QC Criteria for RT: RT of the IS compounds in the samples should be within 30 seconds of the daily calibration standard IS compounds).

**III. METHOD QUALITY CONTROL:**

1. **Method Blank Results:** On the day of extraction, a Lab Blank (reagents spiked with surrogates) was extracted and analyzed to check the extraction apparatus and GC/MS systems for laboratory contamination (see Form I ABN). If TCLs were detected in the Method Blank samples, data for the affected batch of samples were qualified B(B = found in Method Blank) if the same TCLs were also detected in the site samples. The blank contained small amounts of di-n-butyl-phthalate and bis(2-Ethylhexyl)phthalate.

2. **Surrogate Spike Compound Results:** The surrogate spike compound recovery data that was outside the QC limits was

S1 for 2001SK01S04.

No corrective action is taken unless two or more of the surrogates are outside acceptance ranges. In addition two or more of the outliers must be from the same fraction acid or base/neutral for any data qualification to occur. When this happens all detects are flagged with a 'J' and all non-detects with a 'UJ'. The acid surrogates are S1, S2 and S5. In the case where one surrogate is high and one is low and both are from the same fraction only detected compounds are given the "J" flag.

**3. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Results:**

2001SK01S02 was used for MS/MSDs for the water samples.

2-Chlorophenol had low recoveries for both MS and MSD.

4-Nitrophenol had high recoveries for both MS and MSD.

For 4-Nitrophenol any positives for this compound will be qualified with a "J" flag.

For 2-Chlorophenol any non-detects will be give a "UJ" flag in any sample.

2-Hydroxybenzothiazole had recoveries of 104% and 106% with a %RPD of 2% for the MS and MSD samples, respectively.

**4. Laboratory Control Sample (LCS):** On the day of extraction Laboratory Control Samples (LCS and LCS Duplicate) were extracted and analyzed with the site samples.

In keeping with the new QC plan this pair of samples was not used for any data qualification since the MS/MSD appears to be a good indicator of target compound recovery precision.

**5. Performance Evaluation Sample (PES):** Not applicable.

**IV. SAMPLE RESULTS:**

We have discovered that the GC/MS column we are using is not capable of separating 3-methylphenol and 4-methylphenol. We have ordered a new column that will be capable of this for future analysis.

We have noticed that the concentration of one of our surrogates Phenol-D5 in our standard mixes obtained from Supelco is greater now than in previous batches. The concentration of this surrogate in our standard mix is 85

ng/ul now. Previously the concentration was 50 ng/ul.

In almost all cases manual integration was performed for the following reasons:

- (1) The manual integration was performed because the entire compound peak area was not integrated by the software. The spectra of both before and after may or may not be identical depending on co-eluting peaks.
- (2) The software selected the wrong peak for integration. The manual integrations for the initial calibration standards will be found in the City of Pontiac package - data set number 20010007.

In addition to the usual ABN target compounds we analyzed for 2-hydroxybenzothiazole. For this compound the laboratory has not yet conducted method validation studies. Therefore, the site sample data were qualified estimated UJ for non-detects and J for detects.

The laboratory generated data of acceptable quality.

## CRL Data Review Qualification Codes

| QUALIFIER | DESCRIPTION  |
|-----------|--|
| <b>B</b>  | This flag is used when the analyte is found in the associated <u>B</u> lank as well as the sample. It indicates possible blank contamination and warns the user to take appropriate action while assessing the data. See the case narrative for a discussion of common lab contaminants and/or the relative concentration of contamination in the samples and blanks for relevance.  |
| <b>D</b>  | This flag is used when the analyte concentration results from a required <u>D</u> ilution of the sample, extract or digestate.   |
| <b>E</b>  | This flag is used to identify analyte concentrations <u>E</u> xceeding the upper calibration range of the analytical instrument after dilution of the sample, extract or digestate. <u>The reported value is considered to be estimated</u>  |
| <b>J</b>  | This flag is used when the analyte is <u>e</u> stimated due to quality control limit(s) being exceeded. This flag accompanies all GC/MS tentatively identified compounds (TICs). This flag also applies to a suspected, unidentified interference. This flag is placed on affected detected results as well as non-detected (i.e., "U" flagged) results. ( <u>J</u> is the flag used in the Superfund CLP SOW and Data Review Functional Guidelines and is used by CRL for consistency.) |
| <b>M</b>  | This flag is used when the analyte is confirmed to be qualitatively present in the sample, extract or digestate, at or above the CRL <u>M</u> ethod Detection Limit (MDL) but below the CRL reporting limit (RL). This flag applies to all values in this concentration range and indicates the quantitated value is <u>e</u> stimated due to its presence in this concentration range.  |
| <b>N</b>  | This flag applies to GC/MS <u>T</u> entatively Identified Compounds (TICs) that have a mass spectral library match.  |
| <b>Q</b>  | This flag applies to analyte data that are severely estimated due to quality control and/or <u>Q</u> uantitation problems, but are confirmed to be qualitatively present in the sample. <u>No value is reported with this qualification flag.</u>  |
| <b>R</b>  | This flag applies to analyte data that are <u>R</u> ejected and unusable due to severe quality control, quantitation and/or qualitative identification problems. No other qualification flags are reported for this analyte. <u>No value is reported with this qualification flag.</u>   |
| <b>U</b>  | This flag is used when the analyte was analyzed but <u>U</u> ndetected in the sample. The CRL RL for the analyte accompanies this flag. As with sample results that are positive, the value is corrected for dry weight, dilution and/or sample weight or volume.  |

4/11/00

1B  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B BLANK WATER

Lab Name: HIMCO LANDFILL Contract: ML-10C  
 Lab Code: USEPA-R5 Case No.: 20010009 SAS No.: \_\_\_\_\_ SDG No.: GCMS026  
 Matrix: (soil/water) WATER Lab Sample ID: MB BLANK WATE  
 Sample wt/vol: 1000 (g/ml) ML Lab File ID: 1C120420.D  
 Level: (low/med) LOW Date Received: \_\_\_\_\_  
 % Moisture: \_\_\_\_\_ - decanted:(Y/N) N Date Extracted: 11/21/00  
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/05/00  
 Injection Volume: 1.0 (uL) Dilution Factor: 1.0  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

CONCENTRATION UNITS:

| CAS NO.  | COMPOUND                    | (ug/L or ug/Kg) | UG/L | Q |
|----------|-----------------------------|-----------------|------|---|
| 111-44-4 | bis(2-Chloroethyl)ether     | 5               | U    |   |
| 108-95-2 | Phenol                      | 5               | U    |   |
| 95-57-8  | 2-Chlorophenol              | 5               | U    | J |
| 541-73-1 | 1,3-Dichlorobenzene         | 5               | U    |   |
| 106-46-7 | 1,4-Dichlorobenzene         | 5               | U    |   |
| 95-50-1  | 1,2-Dichlorobenzene         | 5               | U    |   |
| 100-51-6 | Benzyl alcohol              | 5               | U    |   |
| 95-48-7  | 2-Methylphenol              | 5               | U    |   |
| 106-44-5 | 4-Methylphenol              | 5               | U    |   |
| 108-60-1 | bis(2-chloroisopropyl)ether | 5               | U    |   |
| 67-72-1  | Hexachloroethane            | 5               | U    |   |
| 621-64-7 | N-Nitroso-di-n-propylamine  | 5               | U    |   |
| 98-95-3  | Nitrobenzene                | 5               | U    |   |
| 78-59-1  | Isophorone                  | 5               | U    |   |
| 88-75-5  | 2-Nitrophenol               | 5               | U    |   |
| 105-67-9 | 2,4-Dimethylphenol          | 5               | U    |   |
| 65-80-0  | Benzoic acid                | 25              | U    | J |
| 111-91-1 | bis(2-Chloroethoxy)methane  | 5               | U    |   |
| 120-83-2 | 2,4-Dichlorophenol          | 5               | U    |   |
| 120-82-1 | 1,2,4-Trichlorobenzene      | 5               | U    |   |
| 91-20-3  | Naphthalene                 | 5               | U    |   |
| 106-47-8 | 4-Chloroaniline             | 5               | U    |   |
| 87-68-3  | Hexachlorobutadiene         | 5               | U    |   |
| 59-50-7  | 4-Chloro-3-methylphenol     | 5               | U    |   |
| 91-57-6  | 2-Methylnaphthalene         | 5               | U    |   |
| 77-47-4  | Hexachlorocyclopentadiene   | 25              | U    | J |
| 88-06-2  | 2,4,6-Trichlorophenol       | 5               | U    |   |
| 95-95-4  | 2,4,5-Trichlorophenol       | 5               | U    |   |
| 91-58-7  | 2-Chloronaphthalene         | 5               | U    |   |
| 88-74-4  | 2-Nitroaniline              | 5               | U    |   |
| 208-96-8 | Acenaphthylene              | 5               | U    |   |
| 131-11-3 | Dimethylphthalate           | 5               | U    |   |
| 606-20-2 | 2,6-Dinitrotoluene          | 5               | U    |   |
| 83-32-9  | Acenaphthene                | 5               | U    |   |
| 99-09-2  | 3-Nitroaniline              | 25              | U    | J |
| 51-28-5  | 2,4-Dinitrophenol           | 25              | U    | J |
| 132-64-9 | Dibenzofuran                | 5               | U    |   |

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B BLANK WATER

Lab Name: HIMCO LANDFILL Contract: ML-10C  
 Lab Code: USEPA-R5 Case No.: 20010009 SAS No.: \_\_\_\_\_ SDG No.: GCMS026  
 Matrix: (soil/water) WATER Lab Sample ID: MB BLANK WATE  
 Sample wt/vol: 1000 (g/ml) ML Lab File ID: 1C120420.D  
 Level: (low/med) LOW Date Received: \_\_\_\_\_  
 % Moisture: \_\_\_\_\_ decanted:(Y/N) N Date Extracted: 11/21/00  
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/05/00  
 Injection Volume: 1.0 (uL) Dilution Factor: 1.0  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

CONCENTRATION UNITS:

| CAS NO.   | COMPOUND                   | (ug/L or ug/Kg) | UG/L | Q   |
|-----------|----------------------------|-----------------|------|-----|
| 121-14-2  | 2,4-Dinitrotoluene         | 5               |      | U   |
| 100-02-7  | 4-Nitrophenol              | 25              |      | U J |
| 86-73-7   | Fluorene                   | 5               |      | U   |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 5               |      | U   |
| 84-66-2   | Diethylphthalate           | 5               |      | U   |
| 100-01-6  | 4-Nitroaniline             | 25              |      | U   |
| 534-52-1  | 4,6-Dinitro-2-methylphenol | 25              |      | U   |
| 86-30-6   | n-Nitrosodiphenylamine     | 5               |      | U   |
| 101-55-3  | 4-Bromophenyl-phenylether  | 5               |      | U   |
| 118-74-1  | Hexachlorobenzene          | 5               |      | U   |
| 87-86-5   | Pentachlorophenol          | 25              |      | U J |
| 85-01-8   | Phenanthrene               | 5               |      | U   |
| 120-12-7  | Anthracene                 | 5               |      | U   |
| 86-74-8   | Carbazole                  | 5               |      | U   |
| 84-74-2   | Di-n-butylphthalate        | 4               |      | JM  |
| 206-44-0  | Fluoranthene               | 5               |      | U   |
| 129-00-0  | Pyrene                     | 5               |      | U   |
| 85-68-7   | Butylbenzylphthalate       | 5               |      | U   |
| 91-94-1   | 3,3'-Dichlorobenzidine     | 25              |      | U J |
| 56-55-3   | Benzo[a]anthracene         | 5               |      | U   |
| 218-01-9  | Chrysene                   | 5               |      | U   |
| 117-81-7  | bis(2-Ethylhexyl)phthalate | 3               |      | JM  |
| 117-84-0  | Di-n-octylphthalate        | 5               |      | U   |
| 205-99-2  | Benzo[b]fluoranthene       | 5               |      | U   |
| 207-08-9  | Benzo[k]fluoranthene       | 5               |      | U   |
| 50-32-8   | Benzo[a]pyrene             | 5               |      | U   |
| 193-39-5  | Indeno[1,2,3-cd]pyrene     | 5               |      | U   |
| 53-70-3   | Dibenz[a,h]anthracene      | 5               |      | U   |
| 191-24-2  | Benzo[g,h,i]perylene       | 5               |      | U   |
|           | 2-HYDROXY BENZOTHIADIAZOLE | 10              |      | U J |

1F  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

**B BLANK WATER**

Lab Name: HIMCO LANDFILL Contract: ML-10C  
Lab Code: USEPA-R5 Case No.: 20010009 SAS No.: \_\_\_\_\_ SDG No.: GCMS026  
Matrix: (soil/water) WATER Lab Sample ID: MB BLANK WATE  
Sample wt/vol: 1000 (g/ml) ML Lab File ID: 1C120420.D  
Level: (low/med) LOW Date Received: \_\_\_\_\_  
% Moisture: \_\_\_\_\_ decanted: (Y/N) N Date Extracted: 11/21/00  
Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/05/00  
Injection Volume: 1.0 (uL) Dilution Factor: 1.0  
GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

CONCENTRATION UNITS:

Number TICs found: 0 (ug/L or ug/Kg) UG/L

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|------------|---------------|----|------------|---|
|------------|---------------|----|------------|---|

1B  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

**R01 WATER**

Lab Name: HIMCO LANDFILL Contract: ML-10C  
 Lab Code: USEPA-R5 Case No.: 20010009 SAS No.: \_\_\_\_\_ SDG No.: GCMS026  
 Matrix: (soil/water) WATER Lab Sample ID: R01 WATER  
 Sample wt/vol: 1050 (g/ml) ML Lab File ID: 1C120423.D  
 Level: (low/med) LOW Date Received: \_\_\_\_\_  
 % Moisture: \_\_\_\_\_ decanted:(Y/N) N Date Extracted: 11/21/00  
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/05/00  
 Injection Volume: 1.0 (uL) Dilution Factor: 1.0  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

CONCENTRATION UNITS:

| CAS NO.  | COMPOUND                    | (ug/L or ug/Kg) | UG/L | Q |
|----------|-----------------------------|-----------------|------|---|
| 111-44-4 | bis(2-Chloroethyl)ether     | 5               | U    |   |
| 108-95-2 | Phenol                      | 5               | U    |   |
| 95-57-8  | 2-Chlorophenol              | 5               | U    | J |
| 541-73-1 | 1,3-Dichlorobenzene         | 5               | U    |   |
| 106-46-7 | 1,4-Dichlorobenzene         | 5               | U    |   |
| 95-50-1  | 1,2-Dichlorobenzene         | 5               | U    |   |
| 100-51-6 | Benzyl alcohol              | 5               | U    |   |
| 95-48-7  | 2-Methylphenol              | 5               | U    |   |
| 106-44-5 | 4-Methylphenol              | 5               | U    |   |
| 108-60-1 | bis(2-chloroisopropyl)ether | 5               | U    |   |
| 67-72-1  | Hexachloroethane            | 5               | U    |   |
| 621-64-7 | N-Nitroso-di-n-propylamine  | 5               | U    |   |
| 98-95-3  | Nitrobenzene                | 5               | U    |   |
| 78-59-1  | Isophorone                  | 5               | U    |   |
| 88-75-5  | 2-Nitrophenol               | 5               | U    |   |
| 105-67-9 | 2,4-Dimethylphenol          | 5               | U    |   |
| 65-80-0  | Benzoic acid                | 24              | U    | J |
| 111-91-1 | bis(2-Chloroethoxy)methane  | 5               | U    |   |
| 120-83-2 | 2,4-Dichlorophenol          | 5               | U    |   |
| 120-82-1 | 1,2,4-Trichlorobenzene      | 5               | U    |   |
| 91-20-3  | Naphthalene                 | 5               | U    |   |
| 106-47-8 | 4-Chloroaniline             | 5               | U    |   |
| 87-68-3  | Hexachlorobutadiene         | 5               | U    |   |
| 59-50-7  | 4-Chloro-3-methylphenol     | 5               | U    |   |
| 91-57-6  | 2-Methylnaphthalene         | 5               | U    |   |
| 77-47-4  | Hexachlorocyclopentadiene   | 24              | U    | J |
| 88-06-2  | 2,4,6-Trichlorophenol       | 5               | U    |   |
| 95-95-4  | 2,4,5-Trichlorophenol       | 5               | U    |   |
| 91-58-7  | 2-Chloronaphthalene         | 5               | U    |   |
| 88-74-4  | 2-Nitroaniline              | 5               | U    |   |
| 208-96-8 | Acenaphthylene              | 5               | U    |   |
| 131-11-3 | Dimethylphthalate           | 5               | U    |   |
| 606-20-2 | 2,6-Dinitrotoluene          | 5               | U    |   |
| 83-32-9  | Acenaphthene                | 5               | U    |   |
| 99-09-2  | 3-Nitroaniline              | 24              | U    | J |
| 51-28-5  | 2,4-Dinitrophenol           | 24              | U    | J |
| 132-64-9 | Dibenzofuran                | 5               | U    |   |

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

**R01 WATER**

Lab Name: HIMCO LANDFILL Contract: ML-10C  
 Lab Code: USEPA-R5 Case No.: 20010009 SAS No.: \_\_\_\_\_ SDG No.: GCMS026  
 Matrix: (soil/water) WATER Lab Sample ID: R01 WATER  
 Sample wt/vol: 1050 (g/ml) ML Lab File ID: 1C120423.D  
 Level: (low/med) LOW Date Received: \_\_\_\_\_  
 % Moisture: \_\_\_\_\_ decanted:(Y/N) N Date Extracted: 11/21/00  
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/05/00  
 Injection Volume: 1.0 (uL) Dilution Factor: 1.0  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

CONCENTRATION UNITS:

| CAS NO.   | COMPOUND                   | (ug/L or ug/Kg) | UG/L | Q     |
|-----------|----------------------------|-----------------|------|-------|
| 121-14-2  | 2,4-Dinitrotoluene         |                 | 5    | U     |
| 100-02-7  | 4-Nitrophenol              |                 | 24   | U J   |
| 86-73-7   | Fluorene                   |                 | 5    | U     |
| 7005-72-3 | 4-Chlorophenyl-phenylether |                 | 5    | U     |
| 84-66-2   | Diethylphthalate           |                 | 5    | U     |
| 100-01-6  | 4-Nitroaniline             |                 | 24   | U     |
| 534-52-1  | 4,6-Dinitro-2-methylphenol |                 | 24   | U     |
| 86-30-6   | n-Nitrosodiphenylamine     |                 | 5    | U     |
| 101-55-3  | 4-Bromophenyl-phenylether  |                 | 5    | U     |
| 118-74-1  | Hexachlorobenzene          |                 | 5    | U     |
| 87-86-5   | Pentachlorophenol          |                 | 24   | U J   |
| 85-01-8   | Phenanthrene               |                 | 5    | U     |
| 120-12-7  | Anthracene                 |                 | 5    | U     |
| 86-74-8   | Carbazole                  |                 | 5    | U     |
| 84-74-2   | Di-n-butylphthalate        |                 | 3    | U B M |
| 206-44-0  | Fluoranthene               |                 | 5    | U     |
| 129-00-0  | Pyrene                     |                 | 5    | U     |
| 85-68-7   | Butylbenzylphthalate       |                 | 5    | U     |
| 91-94-1   | 3,3'-Dichlorobenzidine     |                 | 24   | U J   |
| 56-55-3   | Benzo[a]anthracene         |                 | 5    | U     |
| 218-01-9  | Chrysene                   |                 | 5    | U     |
| 117-81-7  | bis(2-Ethylhexyl)phthalate |                 | 3    | U B M |
| 117-84-0  | Di-n-octylphthalate        |                 | 5    | U     |
| 205-99-2  | Benzo[b]fluoranthene       |                 | 5    | U     |
| 207-08-9  | Benzo[k]fluoranthene       |                 | 5    | U     |
| 50-32-8   | Benzo[a]pyrene             |                 | 5    | U     |
| 193-39-5  | Indeno[1,2,3-cd]pyrene     |                 | 5    | U     |
| 53-70-3   | Dibenz[a,h]anthracene      |                 | 5    | U     |
| 191-24-2  | Benzo[g,h,i]perylene       |                 | 5    | U     |
|           | 2-HYDROXY BENZO THIAZOLE   |                 | 10   | U J   |

RR 12/6/00

1F  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

**R01 WATER**

Lab Name: HIMCO LANDFILL Contract: ML-10C  
Lab Code: USEPA-R5 Case No.: 20010009 SAS No.: \_\_\_\_\_ SDG No.: GCMS026  
Matrix: (soil/water) WATER Lab Sample ID: R01 WATER  
Sample wt/vol: 1050 (g/ml) ML Lab File ID: 1C120423.D  
Level: (low/med) LOW Date Received: \_\_\_\_\_  
% Moisture: \_\_\_\_\_ decanted: (Y/N) N Date Extracted: 11/21/00  
Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/05/00  
Injection Volume: 1.0 (uL) Dilution Factor: 1.0  
GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

CONCENTRATION UNITS:

Number TICs found: 0 (ug/L or ug/Kg) UG/L

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|------------|---------------|----|------------|---|
|------------|---------------|----|------------|---|

1B  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S01 WATER

Lab Name: HIMCO LANDFILL Contract: ML-10C  
 Lab Code: USEPA-R5 Case No.: 20010009 SAS No.: \_\_\_\_\_ SDG No.: GCMS026  
 Matrix: (soil/water) WATER Lab Sample ID: S01 WATER  
 Sample wt/vol: 1050 (g/ml) ML Lab File ID: 1C120424.D  
 Level: (low/med) LOW Date Received: \_\_\_\_\_  
 % Moisture: \_\_\_\_\_ decanted:(Y/N) N Date Extracted: 11/21/00  
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/05/00  
 Injection Volume: 1.0 (uL) Dilution Factor: 1.0  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

CONCENTRATION UNITS:

| CAS NO.  | COMPOUND                    | (ug/L or ug/Kg) | UG/L | Q |
|----------|-----------------------------|-----------------|------|---|
| 111-44-4 | bis(2-Chloroethyl)ether     | 5               | U    |   |
| 108-95-2 | Phenol                      | 5               | U    |   |
| 95-57-8  | 2-Chlorophenol              | 5               | U    | J |
| 541-73-1 | 1,3-Dichlorobenzene         | 5               | U    |   |
| 106-46-7 | 1,4-Dichlorobenzene         | 5               | U    |   |
| 95-50-1  | 1,2-Dichlorobenzene         | 5               | U    |   |
| 100-51-6 | Benzyl alcohol              | 5               | U    |   |
| 95-48-7  | 2-Methylphenol              | 5               | U    |   |
| 106-44-5 | 4-Methylphenol              | 5               | U    |   |
| 108-60-1 | bis(2-chloroisopropyl)ether | 5               | U    |   |
| 67-72-1  | Hexachloroethane            | 5               | U    |   |
| 621-64-7 | N-Nitroso-di-n-propylamine  | 5               | U    |   |
| 98-95-3  | Nitrobenzene                | 5               | U    |   |
| 78-59-1  | Isophorone                  | 5               | U    |   |
| 88-75-5  | 2-Nitrophenol               | 5               | U    |   |
| 105-67-9 | 2,4-Dimethylphenol          | 5               | U    |   |
| 65-80-0  | Benzoic acid                | 24              | U    | J |
| 111-91-1 | bis(2-Chloroethoxy)methane  | 5               | U    |   |
| 120-83-2 | 2,4-Dichlorophenol          | 5               | U    |   |
| 120-82-1 | 1,2,4-Trichlorobenzene      | 5               | U    |   |
| 91-20-3  | Naphthalene                 | 5               | U    |   |
| 106-47-8 | 4-Chloroaniline             | 5               | U    |   |
| 87-68-3  | Hexachlorobutadiene         | 5               | U    |   |
| 59-50-7  | 4-Chloro-3-methylphenol     | 5               | U    |   |
| 91-57-6  | 2-Methylnaphthalene         | 5               | U    |   |
| 77-47-4  | Hexachlorocyclopentadiene   | 24              | U    | J |
| 88-06-2  | 2,4,6-Trichlorophenol       | 5               | U    |   |
| 95-95-4  | 2,4,5-Trichlorophenol       | 5               | U    |   |
| 91-58-7  | 2-Chloronaphthalene         | 5               | U    |   |
| 88-74-4  | 2-Nitroaniline              | 5               | U    |   |
| 208-96-8 | Acenaphthylene              | 5               | U    |   |
| 131-11-3 | Dimethylphthalate           | 5               | U    |   |
| 606-20-2 | 2,6-Dinitrotoluene          | 5               | U    |   |
| 83-32-9  | Acenaphthene                | 5               | U    |   |
| 99-09-2  | 3-Nitroaniline              | 24              | U    | J |
| 51-28-5  | 2,4-Dinitrophenol           | 24              | U    | J |
| 132-64-9 | Dibenzofuran                | 5               | U    |   |

*RR 12/16/02*

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

**S01 WATER**

Lab Name: HIMCO LANDFILL Contract: ML-10C  
 Lab Code: USEPA-R5 Case No.: 20010009 SAS No.: \_\_\_\_\_ SDG No.: GCMS026  
 Matrix: (soil/water) WATER Lab Sample ID: S01 WATER  
 Sample wt/vol: 1050 (g/ml) ML Lab File ID: 1C120424.D  
 Level: (low/med) LOW Date Received: \_\_\_\_\_  
 % Moisture: \_\_\_\_\_ decanted:(Y/N) N Date Extracted: 11/21/00  
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/05/00  
 Injection Volume: 1.0 (uL) Dilution Factor: 1.0  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

CONCENTRATION UNITS:

| CAS NO.   | COMPOUND                   | (ug/L or ug/Kg) | UG/L | Q     |
|-----------|----------------------------|-----------------|------|-------|
| 121-14-2  | 2,4-Dinitrotoluene         |                 | 5    | U     |
| 100-02-7  | 4-Nitrophenol              |                 | 24   | U J   |
| 86-73-7   | Fluorene                   |                 | 5    | U     |
| 7005-72-3 | 4-Chlorophenyl-phenylether |                 | 5    | U     |
| 84-66-2   | Diethylphthalate           |                 | 5    | U     |
| 100-01-6  | 4-Nitroaniline             |                 | 24   | U     |
| 534-52-1  | 4,6-Dinitro-2-methylphenol |                 | 24   | U     |
| 86-30-6   | n-Nitrosodiphenylamine     |                 | 5    | U     |
| 101-55-3  | 4-Bromophenyl-phenylether  |                 | 5    | U     |
| 118-74-1  | Hexachlorobenzene          |                 | 5    | U     |
| 87-86-5   | Pentachlorophenol          |                 | 24   | U J   |
| 85-01-8   | Phenanthrene               |                 | 5    | U     |
| 120-12-7  | Anthracene                 |                 | 5    | U     |
| 86-74-8   | Carbazole                  |                 | 5    | U     |
| 84-74-2   | Di-n-butylphthalate        |                 | 4    | J B M |
| 206-44-0  | Fluoranthene               |                 | 5    | U     |
| 129-00-0  | Pyrene                     |                 | 5    | U     |
| 85-68-7   | Butylbenzylphthalate       |                 | 5    | U     |
| 91-94-1   | 3,3'-Dichlorobenzidine     |                 | 24   | U J   |
| 56-55-3   | Benzo[a]anthracene         |                 | 5    | U     |
| 218-01-9  | Chrysene                   |                 | 5    | U     |
| 117-81-7  | bis(2-Ethylhexyl)phthalate |                 | 5    | U     |
| 117-84-0  | Di-n-octylphthalate        |                 | 5    | U     |
| 205-99-2  | Benzo[b]fluoranthene       |                 | 5    | U     |
| 207-08-9  | Benzo[k]fluoranthene       |                 | 5    | U     |
| 50-32-8   | Benzo[a]pyrene             |                 | 5    | U     |
| 193-39-5  | Indeno[1,2,3-cd]pyrene     |                 | 5    | U     |
| 53-70-3   | Dibenz[a,h]anthracene      |                 | 5    | U     |
| 191-24-2  | Benzo[g,h,i]perylene       |                 | 5    | U     |
|           | 2-HYDROXY BENZOTHAZOLE     |                 | 10   | U J   |

1F  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

**S01 WATER**

Lab Name: HIMCO LANDFILL Contract: ML-10C  
Lab Code: USEPA-R5 Case No.: 20010009 SAS No.: \_\_\_\_\_ SDG No.: GCMS026  
Matrix: (soil/water) WATER Lab Sample ID: S01 WATER  
Sample wt/vol: 1050 (g/ml) ML Lab File ID: 1C120424.D  
Level: (low/med) LOW Date Received: \_\_\_\_\_  
% Moisture: \_\_\_\_\_ decanted: (Y/N) N Date Extracted: 11/21/00  
Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/05/00  
Injection Volume: 1.0 (uL) Dilution Factor: 1.0  
GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

CONCENTRATION UNITS:

Number TICs found: 0 (ug/L or ug/Kg) UG/L

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|------------|---------------|----|------------|---|
|------------|---------------|----|------------|---|

1B  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

**S02 WATER**

Lab Name: HIMCO LANDFILL Contract: ML-10C  
 Lab Code: USEPA-R5 Case No.: 20010009 SAS No.: \_\_\_\_\_ SDG No.: GCMS026  
 Matrix: (soil/water) WATER Lab Sample ID: S02 WATER  
 Sample wt/vol: 1020 (g/ml) ML Lab File ID: 1C120425.D  
 Level: (low/med) LOW Date Received: \_\_\_\_\_  
 % Moisture: \_\_\_\_\_ decanted:(Y/N) N Date Extracted: 11/21/00  
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/05/00  
 Injection Volume: 1.0 (uL) Dilution Factor: 1.0  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

| CAS NO.  | COMPOUND                    | CONCENTRATION UNITS: |      | Q   |
|----------|-----------------------------|----------------------|------|-----|
|          |                             | (ug/L or ug/Kg)      | UG/L |     |
| 111-44-4 | bis(2-Chloroethyl)ether     | 5                    | U    | U   |
| 108-95-2 | Phenol                      | 5                    | U    | U   |
| 95-57-8  | 2-Chlorophenol              | 5                    | U    | U J |
| 541-73-1 | 1,3-Dichlorobenzene         | 5                    | U    | U   |
| 106-46-7 | 1,4-Dichlorobenzene         | 5                    | U    | U   |
| 95-50-1  | 1,2-Dichlorobenzene         | 5                    | U    | U   |
| 100-51-6 | Benzyl alcohol              | 5                    | U    | U   |
| 95-48-7  | 2-Methylphenol              | 5                    | U    | U   |
| 106-44-5 | 4-Methylphenol              | 5                    | U    | U   |
| 108-60-1 | bis(2-chloroisopropyl)ether | 5                    | U    | U   |
| 67-72-1  | Hexachloroethane            | 5                    | U    | U   |
| 621-64-7 | N-Nitroso-di-n-propylamine  | 5                    | U    | U   |
| 98-95-3  | Nitrobenzene                | 5                    | U    | U   |
| 78-59-1  | Isophorone                  | 5                    | U    | U   |
| 88-75-5  | 2-Nitrophenol               | 5                    | U    | U   |
| 105-67-9 | 2,4-Dimethylphenol          | 5                    | U    | U   |
| 65-80-0  | Benzoic acid                | 25                   | U    | U J |
| 111-91-1 | bis(2-Chloroethoxy)methane  | 5                    | U    | U   |
| 120-83-2 | 2,4-Dichlorophenol          | 5                    | U    | U   |
| 120-82-1 | 1,2,4-Trichlorobenzene      | 5                    | U    | U   |
| 91-20-3  | Naphthalene                 | 5                    | U    | U   |
| 106-47-8 | 4-Chloroaniline             | 5                    | U    | U   |
| 87-68-3  | Hexachlorobutadiene         | 5                    | U    | U   |
| 59-50-7  | 4-Chloro-3-methylphenol     | 5                    | U    | U   |
| 91-57-6  | 2-Methylnaphthalene         | 5                    | U    | U   |
| 77-47-4  | Hexachlorocyclopentadiene   | 25                   | U    | U J |
| 88-06-2  | 2,4,6-Trichlorophenol       | 5                    | U    | U   |
| 95-95-4  | 2,4,5-Trichlorophenol       | 5                    | U    | U   |
| 91-58-7  | 2-Chloronaphthalene         | 5                    | U    | U   |
| 88-74-4  | 2-Nitroaniline              | 5                    | U    | U   |
| 208-96-8 | Acenaphthylene              | 5                    | U    | U   |
| 131-11-3 | Dimethylphthalate           | 5                    | U    | U   |
| 606-20-2 | 2,6-Dinitrotoluene          | 5                    | U    | U   |
| 83-32-9  | Acenaphthene                | 5                    | U    | U   |
| 99-09-2  | 3-Nitroaniline              | 25                   | U    | U J |
| 51-28-5  | 2,4-Dinitrophenol           | 25                   | U    | U J |
| 132-64-9 | Dibenzofuran                | 5                    | U    | U   |

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S02 WATER

Lab Name: HIMCO LANDFILL Contract: ML-10C  
 Lab Code: USEPA-R5 Case No.: 20010009 SAS No.: \_\_\_\_\_ SDG No.: GCMS026  
 Matrix: (soil/water) WATER Lab Sample ID: S02 WATER  
 Sample wt/vol: 1020 (g/ml) ML Lab File ID: 1C120425.D  
 Level: (low/med) LOW Date Received: \_\_\_\_\_  
 % Moisture: \_\_\_\_\_ decanted:(Y/N) N Date Extracted: 11/21/00  
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/05/00  
 Injection Volume: 1.0 (uL) Dilution Factor: 1.0  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

CONCENTRATION UNITS:

| CAS NO.   | COMPOUND                   | (ug/L or ug/Kg) | UG/L | Q   |
|-----------|----------------------------|-----------------|------|-----|
| 121-14-2  | 2,4-Dinitrotoluene         |                 | 5    | U   |
| 100-02-7  | 4-Nitrophenol              |                 | 25   | U J |
| 86-73-7   | Fluorene                   |                 | 5    | U   |
| 7005-72-3 | 4-Chlorophenyl-phenylether |                 | 5    | U   |
| 84-66-2   | Diethylphthalate           |                 | 5    | U   |
| 100-01-6  | 4-Nitroaniline             |                 | 25   | U   |
| 534-52-1  | 4,6-Dinitro-2-methylphenol |                 | 25   | U   |
| 86-30-6   | n-Nitrosodiphenylamine     |                 | 5    | U   |
| 101-55-3  | 4-Bromophenyl-phenylether  |                 | 5    | U   |
| 118-74-1  | Hexachlorobenzene          |                 | 5    | U   |
| 87-86-5   | Pentachlorophenol          |                 | 25   | U J |
| 85-01-8   | Phenanthrene               |                 | 5    | U   |
| 120-12-7  | Anthracene                 |                 | 5    | U   |
| 86-74-8   | Carbazole                  |                 | 5    | U   |
| 84-74-2   | Di-n-butylphthalate        |                 | 5    | U   |
| 206-44-0  | Fluoranthene               |                 | 5    | U   |
| 129-00-0  | Pyrene                     |                 | 5    | U   |
| 85-68-7   | Butylbenzylphthalate       |                 | 5    | U   |
| 91-94-1   | 3,3'-Dichlorobenzidine     |                 | 25   | U J |
| 56-55-3   | Benzo[a]anthracene         |                 | 5    | U   |
| 218-01-9  | Chrysene                   |                 | 5    | U   |
| 117-81-7  | bis(2-Ethylhexyl)phthalate |                 | 3    | J M |
| 117-84-0  | Di-n-octylphthalate        |                 | 5    | U   |
| 205-99-2  | Benzo[b]fluoranthene       |                 | 5    | U   |
| 207-08-9  | Benzo[k]fluoranthene       |                 | 5    | U   |
| 50-32-8   | Benzo[a]pyrene             |                 | 5    | U   |
| 193-39-5  | Indeno[1,2,3-cd]pyrene     |                 | 5    | U   |
| 53-70-3   | Dibenz[a,h]anthracene      |                 | 5    | U   |
| 191-24-2  | Benzo[g,h,i]perylene       |                 | 5    | U   |
|           | 2-HYDROXY BENZO THIAZOLE   |                 | 10   | U J |

1F  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

S02 WATER

Lab Name: HIMCO LANDFILL Contract: ML-10C  
Lab Code: USEPA-R5 Case No.: 20010009 SAS No.: \_\_\_\_\_ SDG No.: GCMS026  
Matrix: (soil/water) WATER Lab Sample ID: S02 WATER  
Sample wt/vol: 1020 (g/ml) ML Lab File ID: 1C120425.D  
Level: (low/med) LOW Date Received: \_\_\_\_\_  
% Moisture: \_\_\_\_\_ decanted: (Y/N) N Date Extracted: 11/21/00  
Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/05/00  
Injection Volume: 1.0 (uL) Dilution Factor: 1.0  
GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

CONCENTRATION UNITS:

Number TICs found: 0 (ug/L or ug/Kg) UG/L

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC. | Q |
|------------|---------------|----|------------|---|
|------------|---------------|----|------------|---|

1B  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

**D02 WATER**

Lab Name: HIMCO LANDFILL Contract: ML-10C  
 Lab Code: USEPA-R5 Case No.: 20010009 SAS No.: \_\_\_\_\_ SDG No.: GCMS026  
 Matrix: (soil/water) WATER Lab Sample ID: D02 WATER  
 Sample wt/vol: 1030 (g/ml) ML Lab File ID: 1C120428.D  
 Level: (low/med) LOW Date Received: \_\_\_\_\_  
 % Moisture: \_\_\_\_\_ decanted: (Y/N) N Date Extracted: 11/21/00  
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/05/00  
 Injection Volume: 1.0 (uL) Dilution Factor: 1.0  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

CONCENTRATION UNITS:

| CAS NO.  | COMPOUND                    | (ug/L or ug/Kg) | UG/L | Q   |
|----------|-----------------------------|-----------------|------|-----|
| 111-44-4 | bis(2-Chloroethyl)ether     |                 | 5    | U   |
| 108-95-2 | Phenol                      |                 | 5    | U   |
| 95-57-8  | 2-Chlorophenol              |                 | 5    | U J |
| 541-73-1 | 1,3-Dichlorobenzene         |                 | 5    | U   |
| 106-46-7 | 1,4-Dichlorobenzene         |                 | 5    | U   |
| 95-50-1  | 1,2-Dichlorobenzene         |                 | 5    | U   |
| 100-51-6 | Benzyl alcohol              |                 | 5    | U   |
| 95-48-7  | 2-Methylphenol              |                 | 5    | U   |
| 106-44-5 | 4-Methylphenol              |                 | 5    | U   |
| 108-60-1 | bis(2-chloroisopropyl)ether |                 | 5    | U   |
| 67-72-1  | Hexachloroethane            |                 | 5    | U   |
| 621-64-7 | N-Nitroso-di-n-propylamine  |                 | 5    | U   |
| 98-95-3  | Nitrobenzene                |                 | 5    | U   |
| 78-59-1  | Isophorone                  |                 | 5    | U   |
| 88-75-5  | 2-Nitrophenol               |                 | 5    | U   |
| 105-67-9 | 2,4-Dimethylphenol          |                 | 5    | U   |
| 65-80-0  | Benzoic acid                |                 | 24   | U J |
| 111-91-1 | bis(2-Chloroethoxy)methane  |                 | 5    | U   |
| 120-83-2 | 2,4-Dichlorophenol          |                 | 5    | U   |
| 120-82-1 | 1,2,4-Trichlorobenzene      |                 | 5    | U   |
| 91-20-3  | Naphthalene                 |                 | 5    | U   |
| 106-47-8 | 4-Chloroaniline             |                 | 5    | U   |
| 87-68-3  | Hexachlorobutadiene         |                 | 5    | U   |
| 59-50-7  | 4-Chloro-3-methylphenol     |                 | 5    | U   |
| 91-57-6  | 2-Methylnaphthalene         |                 | 5    | U   |
| 77-47-4  | Hexachlorocyclopentadiene   |                 | 24   | U J |
| 88-06-2  | 2,4,6-Trichlorophenol       |                 | 5    | U   |
| 95-95-4  | 2,4,5-Trichlorophenol       |                 | 5    | U   |
| 91-58-7  | 2-Chloronaphthalene         |                 | 5    | U   |
| 88-74-4  | 2-Nitroaniline              |                 | 5    | U   |
| 208-96-8 | Acenaphthylene              |                 | 5    | U   |
| 131-11-3 | Dimethylphthalate           |                 | 5    | U   |
| 606-20-2 | 2,6-Dinitrotoluene          |                 | 5    | U   |
| 83-32-9  | Acenaphthene                |                 | 5    | U   |
| 99-09-2  | 3-Nitroaniline              |                 | 24   | U J |
| 51-28-5  | 2,4-Dinitrophenol           |                 | 24   | U J |
| 132-64-9 | Dibenzofuran                |                 | 5    | U   |

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

D02 WATER

Lab Name: HIMCO LANDFILL Contract: ML-10C  
 Lab Code: USEPA-R5 Case No.: 20010009 SAS No.: \_\_\_\_\_ SDG No.: GCMS026  
 Matrix: (soil/water) WATER Lab Sample ID: D02 WATER  
 Sample wt/vol: 1030 (g/ml) ML Lab File ID: 1C120428.D  
 Level: (low/med) LOW Date Received: \_\_\_\_\_  
 % Moisture: \_\_\_\_\_ decanted:(Y/N) N Date Extracted: 11/21/00  
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/05/00  
 Injection Volume: 1.0 (uL) Dilution Factor: 1.0  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

CONCENTRATION UNITS:

| CAS NO.   | COMPOUND                   | (ug/L or ug/Kg) | UG/L | Q   |
|-----------|----------------------------|-----------------|------|-----|
| 121-14-2  | 2,4-Dinitrotoluene         | 5               | U    |     |
| 100-02-7  | 4-Nitrophenol              | 24              | U    | J   |
| 86-73-7   | Fluorene                   | 5               | U    |     |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 5               | U    |     |
| 84-66-2   | Diethylphthalate           | 5               | U    |     |
| 100-01-6  | 4-Nitroaniline             | 24              | U    |     |
| 534-52-1  | 4,6-Dinitro-2-methylphenol | 24              | U    |     |
| 86-30-6   | n-Nitrosodiphenylamine     | 5               | U    |     |
| 101-55-3  | 4-Bromophenyl-phenylether  | 5               | U    |     |
| 118-74-1  | Hexachlorobenzene          | 5               | U    |     |
| 87-86-5   | Pentachlorophenol          | 24              | U    | J   |
| 85-01-8   | Phenanthrene               | 5               | U    |     |
| 120-12-7  | Anthracene                 | 5               | U    |     |
| 86-74-8   | Carbazole                  | 5               | U    |     |
| 84-74-2   | Di-n-butylphthalate        | 14              | B    |     |
| 206-44-0  | Fluoranthene               | 5               | U    |     |
| 129-00-0  | Pyrene                     | 5               | U    |     |
| 85-68-7   | Butylbenzylphthalate       | 5               | U    |     |
| 91-94-1   | 3,3'-Dichlorobenzidine     | 24              | U    | J   |
| 56-55-3   | Benzo[a]anthracene         | 5               | U    |     |
| 218-01-9  | Chrysene                   | 5               | U    |     |
| 117-81-7  | bis(2-Ethylhexyl)phthalate | 3               | U    | B M |
| 117-84-0  | Di-n-octylphthalate        | 5               | U    |     |
| 205-99-2  | Benzo[b]fluoranthene       | 5               | U    |     |
| 207-08-9  | Benzo[k]fluoranthene       | 5               | U    |     |
| 50-32-8   | Benzo[a]pyrene             | 5               | U    |     |
| 193-39-5  | Indeno[1,2,3-cd]pyrene     | 5               | U    |     |
| 53-70-3   | Dibenz[a,h]anthracene      | 5               | U    |     |
| 191-24-2  | Benzo[g,h,i]perylene       | 5               | U    |     |
|           | 2-HYDROXY BENZOTHAZOLE     | 10              | U    | J   |

*11/21/00*

1F  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET      EPA SAMPLE NO.  
TENTATIVELY IDENTIFIED COMPOUNDS

**D02 WATER**

Lab Name: HIMCO LANDFILL      Contract: ML-10C  
 Lab Code: USEPA-R5      Case No.: 20010009      SAS No.:      SDG No.: GCMS026  
 Matrix: (soil/water)      WATER      Lab Sample ID: D02 WATER  
 Sample wt/vol:      1030 (g/ml) ML      Lab File ID:      1C120428.D  
 Level: (low/med)      LOW      Date Received:  
 % Moisture:      decanted: (Y/N)      N      Date Extracted: 11/21/00  
 Concentrated Extract Volume: 1000 (uL)      Date Analyzed: 12/05/00  
 Injection Volume: 1.0 (uL)      Dilution Factor: 1.0  
 GPC Cleanup: (Y/N)      N      pH: \_\_\_\_\_

CONCENTRATION UNITS:

Number TICs found:      17      (ug/L or ug/Kg)      UG/L

| CAS NUMBER | COMPOUND NAME                                      | RT    | EST. CONC. | Q  |
|------------|--|-------|------------|----|
| 1.         | unknown hydrocarbon                                | 18.56 | 8          | J  |
| 2.         | unknown  | 19.01 | 9          | J  |
| 3.         | unknown  | 22.57 | 8          | J  |
| 4.         | unknown  | 22.89 | 6          | J  |
| 5.         | unknown  | 25.52 | 21         | J  |
| 6.         | unknown  | 25.67 | 17         | J  |
| 7.         | unknown  | 26.14 | 17         | J  |
| 8.         | 000630-04-6      Hentriacontane (CAS) \$\$ Untriac | 28.54 | 26         | JN |
| 9.         | unknown  | 30.24 | 23         | J  |
| 10.        | unknown  | 30.37 | 23         | J  |
| 11.        | unknown hydrocarbon                                | 30.69 | 33         | J  |
| 12.        | unknown  | 30.87 | 11         | J  |
| 13.        | unknown hydrocarbon                                | 31.48 | 16         | J  |
| 14.        | unknown hydrocarbon                                | 32.35 | 13         | J  |
| 15.        | unknown  | 32.88 | 7          | J  |
| 16.        | unknown hydrocarbon                                | 33.34 | 9          | J  |
| 17.        | 055401-55-3      Docosane, 11-decyl- (CAS) \$\$ 11 | 34.50 | 6          | JN |

1B  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

**S03 WATER**

Lab Name: HIMCO LANDFILL Contract: ML-10C  
 Lab Code: USEPA-R5 Case No.: 20010009 SAS No.: \_\_\_\_\_ SDG No.: GCMS026  
 Matrix: (soil/water) WATER Lab Sample ID: S03 WATER  
 Sample wt/vol: 1060 (g/ml) ML Lab File ID: 1C120429.D  
 Level: (low/med) LOW Date Received: \_\_\_\_\_  
 % Moisture: \_\_\_\_\_ decanted: (Y/N) N Date Extracted: 11/21/00  
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/05/00  
 Injection Volume: 1.0 (uL) Dilution Factor: 1.0  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

CONCENTRATION UNITS:

| CAS NO.  | COMPOUND                    | (ug/L or ug/Kg) | UG/L | Q |
|----------|-----------------------------|-----------------|------|---|
| 111-44-4 | bis(2-Chloroethyl)ether     | 5               | U    |   |
| 108-95-2 | Phenol                      | 5               | U    |   |
| 95-57-8  | 2-Chlorophenol              | 5               | U    | J |
| 541-73-1 | 1,3-Dichlorobenzene         | 5               | U    |   |
| 106-46-7 | 1,4-Dichlorobenzene         | 5               | U    |   |
| 95-50-1  | 1,2-Dichlorobenzene         | 5               | U    |   |
| 100-51-6 | Benzyl alcohol              | 5               | U    |   |
| 95-48-7  | 2-Methylphenol              | 5               | U    |   |
| 106-44-5 | 4-Methylphenol              | 5               | U    |   |
| 108-60-1 | bis(2-chloroisopropyl)ether | 5               | U    |   |
| 67-72-1  | Hexachloroethane            | 5               | U    |   |
| 621-64-7 | N-Nitroso-di-n-propylamine  | 5               | U    |   |
| 98-95-3  | Nitrobenzene                | 5               | U    |   |
| 78-59-1  | Isophorone                  | 5               | U    |   |
| 88-75-5  | 2-Nitrophenol               | 5               | U    |   |
| 105-67-9 | 2,4-Dimethylphenol          | 5               | U    |   |
| 65-80-0  | Benzoic acid                | 24              | U    | J |
| 111-91-1 | bis(2-Chloroethoxy)methane  | 5               | U    |   |
| 120-83-2 | 2,4-Dichlorophenol          | 5               | U    |   |
| 120-82-1 | 1,2,4-Trichlorobenzene      | 5               | U    |   |
| 91-20-3  | Naphthalene                 | 5               | U    |   |
| 106-47-8 | 4-Chloroaniline             | 5               | U    |   |
| 87-68-3  | Hexachlorobutadiene         | 5               | U    |   |
| 59-50-7  | 4-Chloro-3-methylphenol     | 5               | U    |   |
| 91-57-6  | 2-Methylnaphthalene         | 5               | U    |   |
| 77-47-4  | Hexachlorocyclopentadiene   | 24              | U    | J |
| 88-06-2  | 2,4,6-Trichlorophenol       | 5               | U    |   |
| 95-95-4  | 2,4,5-Trichlorophenol       | 5               | U    |   |
| 91-58-7  | 2-Chloronaphthalene         | 5               | U    |   |
| 88-74-4  | 2-Nitroaniline              | 5               | U    |   |
| 208-96-8 | Acenaphthylene              | 5               | U    |   |
| 131-11-3 | Dimethylphthalate           | 5               | U    |   |
| 606-20-2 | 2,6-Dinitrotoluene          | 5               | U    |   |
| 83-32-9  | Acenaphthene                | 5               | U    |   |
| 99-09-2  | 3-Nitroaniline              | 24              | U    | J |
| 51-28-5  | 2,4-Dinitrophenol           | 24              | U    | J |
| 132-64-9 | Dibenzofuran                | 5               | U    |   |

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S03 WATER

Lab Name: HIMCO LANDFILL

Contract: ML-10C

Lab Code: USEPA-R5

Case No.: 20010009

SAS No.:

SDG No.: GCMS026

Matrix: (soil/water) WATER

Lab Sample ID: S03 WATER

Sample wt/vol: 1060 (g/ml) ML

Lab File ID: 1C120429.D

Level: (low/med) LOW

Date Received: \_\_\_\_\_

% Moisture: \_\_\_\_\_ decanted:(Y/N) N

Date Extracted: 11/21/00

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 12/05/00

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

CONCENTRATION UNITS:

| CAS NO.   | COMPOUND                   | (ug/L or ug/Kg) | UG/L | Q  |
|-----------|----------------------------|-----------------|------|----|
| 121-14-2  | 2,4-Dinitrotoluene         | 5               | U    |    |
| 100-02-7  | 4-Nitrophenol              | 24              | U    | J  |
| 86-73-7   | Fluorene                   | 5               | U    |    |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 5               | U    |    |
| 84-66-2   | Diethylphthalate           | 5               | U    |    |
| 100-01-6  | 4-Nitroaniline             | 24              | U    |    |
| 534-52-1  | 4,6-Dinitro-2-methylphenol | 24              | U    |    |
| 86-30-6   | n-Nitrosodiphenylamine     | 5               | U    |    |
| 101-55-3  | 4-Bromophenyl-phenylether  | 5               | U    |    |
| 118-74-1  | Hexachlorobenzene          | 5               | U    |    |
| 87-86-5   | Pentachlorophenol          | 24              | U    | J  |
| 85-01-8   | Phenanthrene               | 5               | U    |    |
| 120-12-7  | Anthracene                 | 5               | U    |    |
| 86-74-8   | Carbazole                  | 5               | U    |    |
| 84-74-2   | Di-n-butylphthalate        | 4               | U    | BM |
| 206-44-0  | Fluoranthene               | 5               | U    |    |
| 129-00-0  | Pyrene                     | 5               | U    |    |
| 85-68-7   | Butylbenzylphthalate       | 5               | U    |    |
| 91-94-1   | 3,3'-Dichlorobenzidine     | 24              | U    | J  |
| 56-55-3   | Benzo[a]anthracene         | 5               | U    |    |
| 218-01-9  | Chrysene                   | 5               | U    |    |
| 117-81-7  | bis(2-Ethylhexyl)phthalate | 5               | U    |    |
| 117-84-0  | Di-n-octylphthalate        | 5               | U    |    |
| 205-99-2  | Benzo[b]fluoranthene       | 5               | U    |    |
| 207-08-9  | Benzo[k]fluoranthene       | 5               | U    |    |
| 50-32-8   | Benzo[a]pyrene             | 5               | U    |    |
| 193-39-5  | Indeno[1,2,3-cd]pyrene     | 5               | U    |    |
| 53-70-3   | Dibenz[a,h]anthracene      | 5               | U    |    |
| 191-24-2  | Benzo[g,h,i]perylene       | 5               | U    |    |

*2-HYDROXY BENZO THIAZOLE*

~~23~~ **23 J**

1F  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

S03 WATER

Lab Name: HIMCO LANDFILL Contract: ML-10C  
 Lab Code: USEPA-R5 Case No.: 20010009 SAS No.: \_\_\_\_\_ SDG No.: GCMS026  
 Matrix: (soil/water) WATER Lab Sample ID: S03 WATER  
 Sample wt/vol: 1060 (g/ml) ML Lab File ID: 1C120429.D  
 Level: (low/med) LOW Date Received: \_\_\_\_\_  
 % Moisture: \_\_\_\_\_ decanted: (Y/N) N Date Extracted: 11/21/00  
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/05/00  
 Injection Volume: 1.0 (uL) Dilution Factor: 1.0  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

CONCENTRATION UNITS:

Number TICs found: 3 (ug/L or ug/Kg) UG/L

| CAS NUMBER     | COMPOUND NAME                   | RT    | EST. CONC. | Q  |
|----------------|---------------------------------|-------|------------|----|
| 1. 000050-06-6 | Phenobarbital \$ 2,4,6(1H,3H,5H | 21.70 | 8          | JN |
| 2.             | unknown                         | 24.27 | 12         | J  |
| 3.             | unknown hydrocarbon             | 30.69 | 5          | J  |

1B  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

**S04 WATER**

Lab Name: HIMCO LANDFILL Contract: ML-10C  
 Lab Code: USEPA-R5 Case No.: 20010009 SAS No.: \_\_\_\_\_ SDG No.: GCMS026  
 Matrix: (soil/water) WATER Lab Sample ID: S04 WATER  
 Sample wt/vol: 1050 (g/ml) ML Lab File ID: 1C120430.D  
 Level: (low/med) LOW Date Received: \_\_\_\_\_  
 % Moisture: \_\_\_\_\_ decanted:(Y/N) N Date Extracted: 11/21/00  
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/05/00  
 Injection Volume: 1.0 (uL) Dilution Factor: 1.0  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

CONCENTRATION UNITS:

| CAS NO.  | COMPOUND                    | (ug/L or ug/Kg) | UG/L | Q   |
|----------|-----------------------------|-----------------|------|-----|
| 111-44-4 | bis(2-Chloroethyl)ether     | 5               | U    | U   |
| 108-95-2 | Phenol                      | 5               | U    | U   |
| 95-57-8  | 2-Chlorophenol              | 5               | U    | U J |
| 541-73-1 | 1,3-Dichlorobenzene         | 5               | U    | U   |
| 106-46-7 | 1,4-Dichlorobenzene         | 5               | U    | U   |
| 95-50-1  | 1,2-Dichlorobenzene         | 5               | U    | U   |
| 100-51-6 | Benzyl alcohol              | 5               | U    | U   |
| 95-48-7  | 2-Methylphenol              | 5               | U    | U   |
| 106-44-5 | 4-Methylphenol              | 5               | U    | U   |
| 108-60-1 | bis(2-chloroisopropyl)ether | 5               | U    | U   |
| 67-72-1  | Hexachloroethane            | 5               | U    | U   |
| 621-64-7 | N-Nitroso-di-n-propylamine  | 5               | U    | U   |
| 98-95-3  | Nitrobenzene                | 5               | U    | U   |
| 78-59-1  | Isophorone                  | 5               | U    | U   |
| 88-75-5  | 2-Nitrophenol               | 5               | U    | U   |
| 105-67-9 | 2,4-Dimethylphenol          | 5               | U    | U   |
| 65-80-0  | Benzoic acid                | 24              | U    | U J |
| 111-91-1 | bis(2-Chloroethoxy)methane  | 5               | U    | U   |
| 120-83-2 | 2,4-Dichlorophenol          | 5               | U    | U   |
| 120-82-1 | 1,2,4-Trichlorobenzene      | 5               | U    | U   |
| 91-20-3  | Naphthalene                 | 5               | U    | U   |
| 106-47-8 | 4-Chloroaniline             | 5               | U    | U   |
| 87-68-3  | Hexachlorobutadiene         | 5               | U    | U   |
| 59-50-7  | 4-Chloro-3-methylphenol     | 5               | U    | U   |
| 91-57-6  | 2-Methylnaphthalene         | 5               | U    | U   |
| 77-47-4  | Hexachlorocyclopentadiene   | 24              | U    | U J |
| 88-06-2  | 2,4,6-Trichlorophenol       | 5               | U    | U   |
| 95-95-4  | 2,4,5-Trichlorophenol       | 5               | U    | U   |
| 91-58-7  | 2-Chloronaphthalene         | 5               | U    | U   |
| 88-74-4  | 2-Nitroaniline              | 5               | U    | U   |
| 208-96-8 | Acenaphthylene              | 5               | U    | U   |
| 131-11-3 | Dimethylphthalate           | 5               | U    | U   |
| 606-20-2 | 2,6-Dinitrotoluene          | 5               | U    | U   |
| 83-32-9  | Acenaphthene                | 5               | U    | U   |
| 99-09-2  | 3-Nitroaniline              | 24              | U    | U J |
| 51-28-5  | 2,4-Dinitrophenol           | 24              | U    | U J |
| 132-64-9 | Dibenzofuran                | 5               | U    | U   |

1C  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S04 WATER

Lab Name: HIMCO LANDFILL Contract: ML-10C  
 Lab Code: USEPA-R5 Case No.: 20010009 SAS No.: \_\_\_\_\_ SDG No.: GCMS026  
 Matrix: (soil/water) WATER Lab Sample ID: S04 WATER  
 Sample wt/vol: 1050 (g/ml) ML Lab File ID: 1C120430.D  
 Level: (low/med) LOW Date Received: \_\_\_\_\_  
 % Moisture: \_\_\_\_\_ decanted:(Y/N) N Date Extracted: 11/21/00  
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/05/00  
 Injection Volume: 1.0 (uL) Dilution Factor: 1.0  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

CONCENTRATION UNITS:

| CAS NO.   | COMPOUND                   | (ug/L or ug/Kg) | UG/L | Q                 |
|-----------|----------------------------|-----------------|------|-------------------|
| 121-14-2  | 2,4-Dinitrotoluene         | 5               | U    |                   |
| 100-02-7  | 4-Nitrophenol              | 24              | U    | J                 |
| 86-73-7   | Fluorene                   | 5               | U    |                   |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 5               | U    |                   |
| 84-66-2   | Diethylphthalate           | 5               | U    |                   |
| 100-01-6  | 4-Nitroaniline             | 24              | U    |                   |
| 534-52-1  | 4,6-Dinitro-2-methylphenol | 24              | U    |                   |
| 86-30-6   | n-Nitrosodiphenylamine     | 5               | U    |                   |
| 101-55-3  | 4-Bromophenyl-phenylether  | 5               | U    |                   |
| 118-74-1  | Hexachlorobenzene          | 5               | U    |                   |
| 87-86-5   | Pentachlorophenol          | 24              | U    | J                 |
| 85-01-8   | Phenanthrene               | 5               | U    |                   |
| 120-12-7  | Anthracene                 | 5               | U    |                   |
| 86-74-8   | Carbazole                  | 5               | U    |                   |
| 84-74-2   | Di-n-butylphthalate        | 5               | U    |                   |
| 206-44-0  | Fluoranthene               | 5               | U    |                   |
| 129-00-0  | Pyrene                     | 5               | U    |                   |
| 85-68-7   | Butylbenzylphthalate       | 5               | U    |                   |
| 91-94-1   | 3,3'-Dichlorobenzidine     | 24              | U    | J                 |
| 56-55-3   | Benzo[a]anthracene         | 5               | U    |                   |
| 218-01-9  | Chrysene                   | 5               | U    |                   |
| 117-81-7  | bis(2-Ethylhexyl)phthalate | 5               | U    |                   |
| 117-84-0  | Di-n-octylphthalate        | 5               | U    |                   |
| 205-99-2  | Benzo[b]fluoranthene       | 5               | U    |                   |
| 207-08-9  | Benzo[k]fluoranthene       | 5               | U    |                   |
| 50-32-8   | Benzo[a]pyrene             | 5               | U    |                   |
| 193-39-5  | Indeno[1,2,3-cd]pyrene     | 5               | U    |                   |
| 53-70-3   | Dibenz[a,h]anthracene      | 5               | U    |                   |
| 191-24-2  | Benzo[g,h,i]perylene       | 5               | U    |                   |
|           | 2-HYDROXY BENZO THIAZOLE   |                 |      | <del>5</del> 30 J |

*for 12/18/00 as 11/16/00*

1F  
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

S04 WATER

Lab Name: HIMCO LANDFILL Contract: ML-10C  
 Lab Code: USEPA-R5 Case No.: 20010009 SAS No.: \_\_\_\_\_ SDG No.: GCMS026  
 Matrix: (soil/water) WATER Lab Sample ID: S04 WATER  
 Sample wt/vol: 1050 (g/ml) ML Lab File ID: 1C120430.D  
 Level: (low/med) LOW Date Received: \_\_\_\_\_  
 % Moisture: \_\_\_\_\_ decanted: (Y/N) N Date Extracted: 11/21/00  
 Concentrated Extract Volume: 1000 (uL) Date Analyzed: 12/05/00  
 Injection Volume: 1.0 (uL) Dilution Factor: 1.0  
 GPC Cleanup: (Y/N) N pH: \_\_\_\_\_

CONCENTRATION UNITS:

Number TICs found: 1 (ug/L or ug/Kg) UG/L

| CAS NUMBER | COMPOUND NAME | RT    | EST. CONC. | Q |
|------------|---------------|-------|------------|---|
| 1.         | unknown       | 23.02 | 6          | J |



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 5 CENTRAL REGIONAL LABORATORY

536 SOUTH CLARK STREET

CHICAGO, ILLINOIS 60605

Date: JAN 27 1991

Subject: Review of Region 5 Data for Himco Landfill

From: Monica C. Paguia, Chemist *Monica C. Paguia*  
Region 5 Central Regional Laboratory

To: *Gwen Massenburg*  
*SR-6J*

Attached are the results for Site: Himco Landfill (residential wells)

CRL Data Set Number: SF 2001 0009

for analyses of: Pesticides and PCBs

Results are reported for sample numbers: 2001SKO1S01-S04, 2001SKO1R01, & 2001SKO1D02

Results Status:

- Acceptable for Use
- Data Qualified, but Acceptable for use
- Data Unacceptable for Use

*Sylvia Griffin*

CRL Data Management Coordinator and Date Received

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Date Transmitted: \_\_\_\_\_

Please have the US EPA project leader fill out the customer survey form on the Region 5 Intranet: <http://www.r5intra.epa.gov/crl/qa.html>, (← by clicking on this link, or call George Schupp, CRL Sample Coordinator, at 3-1226).

Please sign and date this form below and return it with any comments to:

Sylvia Griffin  
Data Management Coordinator  
Region 5 Central Regional Laboratory  
ML - 10C

---

Received by and Date

Comments:

CASE NARRATIVE

DATE: December 15, 2000

PROJECT NAME: Himco Landfill  
Analysis of Pesticides and PCBs

DATA SET NUMBER: 20010009

ANALYST: Monica C. Pagua, Chemist

I. CASE DESCRIPTION:

The laboratory received 6 water samples on 11/17/00 for PCB/pesticides analysis. These water samples, along with the appropriate QC samples, were collected on 11/15 & 11/16/00 and were extracted on 11/20/00. The extraction holding time of 14 days after collection was met for all the samples.

The quality control samples consisted of a method blank (MB), a laboratory control sample and duplicate (LCS/LCS Dup.), a matrix spike and matrix spike duplicate (MS/MSD). The MB and LCS/LCS duplicate were prepared with clean reagent water. The MS/MSD were prepared with aliquot duplicate samples of 2001SK01S02. The LCS, LCS Dup., MS, & MSD were spiked with a pesticide mix spiking solution. No PCB spiking solutions were used. This was done in accordance with CRL policy of alternating PCB and pesticides spiking solutions for the QC samples with each extraction of sample batches.

GC#1 was used for the analysis. The extracts were injected for screening on 11/28/00 and were injected for analysis on 12/01/00. The Sequence Summary Form provides a listing of all the data file names, sample numbers/names and dates/times of injection for all the standards, QC samples and samples on each of the two GC columns. The injection holding time of 40 days after extraction was met for all the samples.

By screening the samples, it was discovered that the samples had neither PCBs nor sulfur in them. Therefore, clean-up of the samples was not necessary. Also, the samples were not analyzed with a 5 point calibration for PCBs. Rather, levels 1 & 2 of Aroclor 1242 were injected and used to update an existing method. Because low levels were of interest and no PCBs were discovered in the screening, the samples were analyzed using a 2 point method (A42W1215.M).

The Standard Operating Procedures (SOPs) that were followed for this analysis are CRL SOP GC001 (GC/EC Analysis) and GC007 (Liquid-liquid extraction).

## II. INSTRUMENT QUALITY CONTROLS:

### 1. Instrument Performance Check:

#### DDT and Endrin Degradation Checks

The CRL QC limit of  $\pm 15\%$  degradation for DDT was met on both columns; endrin passed on column DB-608 but failed on column DB-5. None of the samples were qualified due to these results.

### 2. Initial Calibration Check:

Initial calibration curves were injected on 11/30/00 and generated on 12/13/00. Valid 5 point calibration curves were generated passing CRL calibration acceptance criteria for each pesticide analyte.

### 3. Calibration Verification Standards (CVS):

Calibration verification standards were injected at 12 hours or less intervals within a sequence. CVS results generally passed the CVS CRL QC acceptance criteria. Any results that fell outside of the limits were slightly higher than the limit. This did not have any adverse effect on the samples.

### 4. Retention Time (RT) Summary:

Retention time reproducibility (CVSs vs. initial) was acceptable for all the analytes. The RTs in the CVSs are within  $\pm 0.08$  minutes of the initial calibration.

### 5. QC Check Standards (Accuracy check):

The calibration standards used had been checked against QC check standards obtained from a different source. The QC limit of 80 - 120% recovery was met for most of the analytes. For those that fell below the limit, these analytes were qualified J (estimated)

## III. METHOD QUALITY CONTROL:

### 1. A. Method Blank Results:

The method blank and instrument blank results did not contain target pesticides or PCBs above the detection limit.

### 2. Surrogate Spike Compound Results:

The surrogate recoveries for TCMX generally passed for all of the samples. However, DCB recovery was very low for

samples 2001SK01S01, -S03, & -S04. This is probably due to matrix interferences &/or sample preparation interferences. Results reported from these samples were qualified J (Estimated).

3. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Results:

The MS/MSD were prepared using aliquot duplicate samples of 2001SK01S02 and were spiked with a pesticide spiking solution. No PCB MS/MSD were prepared. Again, this was done in accordance with the CRL policy of the alternate use of pesticide and PCB spiking solutions. Results were acceptable.

4. Laboratory Control Sample (LCS):

The LCS/LCS duplicate were spiked with pesticides. No PCB LCS/LCS Dup. were prepared. Results were acceptable.

IV. **SAMPLE RESULTS:**

There were no pesticides found above the MDL in any of the samples. Therefore, all of the data was qualified U (Undetected) (See Form 1 sample results). Reporting limits were based on the lowest calibration standard. Again, results from 2001SK01S01, -S03 & -S04 were flagged J (Estimated) due to low surrogate recoveries, making results biased low or rather forcing detection limits to be biased high.

The data are qualified but acceptable for use.

The data acquired on GC#1 for these samples were saved in R5CRL\Vol13\PCB\_PEST\MPAGUIA\GC#1\DATA\ [subdirectory name]. The subdirectories are as follows: 112800 and 113000.



## CRL Data Review Qualification Codes

| QUALIFIER | DESCRIPTION  |
|-----------|--|
| <b>B</b>  | This flag is used when the analyte is found in the associated <u>B</u> lank as well as the sample. It indicates possible blank contamination and warns the user to take appropriate action while assessing the data. See the case narrative for a discussion of common lab contaminants and/or the relative concentration of contamination in the samples and blanks for relevance.  |
| <b>D</b>  | This flag is used when the analyte concentration results from a required <u>D</u> ilution of the sample, extract or digestate.   |
| <b>E</b>  | This flag is used to identify analyte concentrations <u>E</u> xceeding the upper calibration range of the analytical instrument after dilution of the sample, extract or digestate. <u>The reported value is considered to be estimated</u>  |
| <b>J</b>  | This flag is used when the analyte is <u>e</u> stimated due to quality control limit(s) being exceeded. This flag accompanies all GC/MS tentatively identified compounds (TICs). This flag also applies to a suspected, unidentified interference. This flag is placed on affected detected results as well as non-detected (i.e., "U" flagged) results. ( <u>J</u> is the flag used in the Superfund CLP SOW and Data Review Functional Guidelines and is used by CRL for consistency.) |
| <b>M</b>  | This flag is used when the analyte is confirmed to be qualitatively present in the sample, extract or digestate, at or above the CRL <u>M</u> ethod Detection Limit (MDL) but below the CRL reporting limit (RL). This flag applies to all values in this concentration range and indicates the quantitated value is <u>e</u> stimated due to its presence in this concentration range.  |
| <b>N</b>  | This flag applies to GC/MS <u>T</u> entatively Identified Compounds that have a mass spectral library match.   |
| <b>Q</b>  | This flag applies to analyte data that are severely estimated due to quality control and/or <u>Q</u> uantitation problems, but are confirmed to be qualitatively present in the sample. <u>No value is reported with this qualification flag.</u>  |
| <b>R</b>  | This flag applies to analyte data that are <u>R</u> ejected and unusable due to severe quality control, quantitation and/or qualitative identification problems. No other qualification flags are reported for this analyte. <u>No value is reported with this qualification flag.</u>   |
| <b>U</b>  | This flag is used when the analyte was analyzed but <u>U</u> ndetected in the sample. The CRL RL for the analyte accompanies this flag. As with sample results that are positive, the value is corrected for dry weight, dilution and/or sample weight or volume.  |

4/11/00



Site Name: HIMCO LANDFILL  
 Lab Code: USEPA REG. V Case No: 20010009

Matrix: water

| CAS No.    | Analyte Name       | ug/L   | flags |
|------------|--------------------|--------|-------|
| 319-84-6   | alpha-BHC          | 0.0200 | U J   |
| 58-89-9    | Lindane            | 0.0200 | U J   |
| 319-85-7   | beta-BHC           | 0.0200 | U J   |
| 76-44-8    | Heptachlor         | 0.0200 | U J   |
| 319-86-8   | delta-BHC          | 0.0200 | U J   |
| 309-00-2   | Aldrin             | 0.0200 | U J   |
| 1024-57-3  | Hept Epoxide       | 0.0200 | U J   |
| 5103-74-2  | gamma-Chlordane    | 0.0200 | U J   |
| 5103-71-9  | alpha-Chlordane    | 0.0200 | U J   |
| 959-98-8   | Endosulfan I       | 0.0200 | U J   |
| 72-55-9    | p,p'-DDE           | 0.0500 | U J   |
| 60-57-1    | Dieldrin           | 0.0500 | U J   |
| 72-20-8    | Endrin             | 0.0500 | U J   |
| 72-54-8    | p,p'-DDD           | 0.0500 | U J   |
| 33213-65-9 | Endosulfan II      | 0.0500 | U J   |
| 50-29-3    | p,p'-DDT           | 0.0500 | U J   |
| 7421-93-4  | Endrin Aldehyde    | 0.0500 | U J   |
| 1031-07-8  | Endosulfan Sulfate | 0.0500 | U J   |
| 72-43-5    | Methoxychlor       | 0.2500 | U J   |
| 53494-70-5 | Endrin ketone      | 0.0500 | U J   |
| 53469-21-9 | Aroclor 1242       | 1.000  | U J   |
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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY



REGION 5 CENTRAL REGIONAL LABORATORY

536 SOUTH CLARK STREET

CHICAGO, ILLINOIS 60605

Date: APR 04 2002

*Additional PCB data*

Subject: Review of Region 5 Data for Himco Landfill

From: Monica C. Pagnia, Chemist *mcp*  
Region 5 Central Regional Laboratory

To:

Attached are the results for Site: Himco Landfill (residential wells)

CRL Data Set Number: SF 2001 0009

for analyses of: Pesticides and PCBs

Results are reported for sample numbers: 2001SKO1S01-S04, 2001SKO1R01, & 2001SKO1D02

Results Status:

( ) Acceptable for Use

( X ) Data Qualified, but Acceptable for use

( ) Data Unacceptable for Use

*Sylvia Griffin*

CRL Data Management Coordinator and Date Received

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Date Transmitted: APR 11 2002

Please have the US EPA project leader fill out the customer survey form on the Region 5 Intranet:  
<http://www.r5intra.epa.gov/crl/qa.html>, (← by clicking on this link, or call George Schupp, CRL  
Sample Coordinator, at 3-1226).

Please sign and date this form below and return it with any comments to:

Sylvia Griffin  
Data Management Coordinator  
Region 5 Central Regional Laboratory  
ML - 10C

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Received by and Date

Comments:

## CASE NARRATIVE

**DATE:** April 5, 2002  
**PROJECT NAME:** Himco Landfill, Analysis of Pesticides and PCBs  
**DATA SET NUMBER:** 20010009  
**ANALYST:** Monica C. Pagua, Chemist *mer*

### **CORRECTION:**

As stated in the original case narrative, these 6 water samples were screened for PCBs prior to analysis. Based on the screening, there were no PCBs found in any of the samples. They were originally analyzed with a pesticide method and an Aroclor 1242 method on GC#1. The samples did not contain any pesticides nor Aroclor 1242.

Level 1 (0.100 ppm) of Aroclors 1016, 1232, 1248, 1254, & 1260 were injected on the same GC at approximately the same time the samples were injected. The sample chromatograms were compared to these aroclor standard chromatograms. The comparisons show that the samples do not contain these aroclors. Aroclor 1221 was not analyzed on GC#1.

Again, there were no pesticides nor PCBs found above the method detection limit (MDL) in any of the samples. Therefore, all of the data was qualified **U** (Undetected)(See Form 1 sample results). Reporting limits were based on the lowest calibration standard. Results from 2001SKO1S01, -S03 & -S04 were flagged **J** (Estimated) due to low surrogate recoveries, making results biased low or rather forcing detection limits to be biased high.

The data are qualified but acceptable for use.

## CRL Data Review Qualification Codes

| QUALIFIER | DESCRIPTION   |
|-----------|---|
| <b>B</b>  | This flag is used when the analyte is found in the associated <u>B</u> lank as well as the sample. It indicates possible blank contamination and warns the user to take appropriate action while assessing the data. See the case narrative for a discussion of common lab contaminants and/or the relative concentration of contamination in the samples and blanks for relevance.   |
| <b>J</b>  | This flag is used when the analyte is <u>estimated</u> due to quality control limit(s) being exceeded. This flag accompanies all GC/MS tentatively identified compounds (TICs). This flag also applies to a suspected, unidentified interference. This flag is placed on affected detected results as well as non-detected (i.e., "U" flagged) results. ( <u>J</u> is the flag used in the Superfund CLP SOW and Data Review Functional Guidelines and is used by CRL for consistency.) |
| <b>M</b>  | This flag is used when the analyte is confirmed to be qualitatively present in the sample, extract or digestate, with a quantity at or above the CRL <u>M</u> ethod Detection Limit (MDL) but below the lowest concentration of the calibration curve. This flag indicates the quantitated value is <u>estimated</u> since it falls below the lowest calibration standard in the calibration curve.   |
| <b>N</b>  | This flag applies to GC/MS <u>T</u> entatively Identified Compounds (TICs) that have a mass spectral library match.   |
| <b>Q</b>  | This flag applies to analyte data that are severely estimated due to quality control and/or <u>Q</u> uantitation problems, but are confirmed to be qualitatively present in the sample. <u>No value is reported with this qualification flag.</u>   |
| <b>R</b>  | This flag applies to analyte data that are <u>R</u> ejected and unusable due to severe quality control, quantitation and/or qualitative identification problems. No other qualification flags are reported for this analyte. <u>No value is reported with this qualification flag.</u>  |
| <b>U</b>  | This flag is used when the analyte was analyzed for but <u>U</u> ndetected in the sample. The CRL RL for the analyte accompanies this flag. When the customer requests CRL to report below our RL down to our MDL, undetected analytes are reported with a "U" code and the MDL. As with sample results that are positive, the value is corrected for dry weight, dilution and/or sample weight or volume.  |

03/07/01

Pesticide/PCB Results  
SUMMARY

2001SKO1R01

Site Name:HIMCO LANDFILL  
Lab Code:USEPA REG. V Case No:20010009

Matrix: water

| CAS No.    | Analyte Name       | ug/L   | flags |
|------------|--------------------|--------|-------|
| 319-84-6   | alpha-BHC          | 0.0200 | U J   |
| 58-89-9    | Lindane            | 0.0200 | U J   |
| 319-85-7   | beta-BHC           | 0.0200 | U     |
| 76-44-8    | Heptachlor         | 0.0200 | U     |
| 319-86-8   | delta-BHC          | 0.0200 | U J   |
| 309-00-2   | Aldrin             | 0.0200 | U     |
| 1024-57-3  | Hept Epoxide       | 0.0200 | U     |
| 5103-74-2  | gamma-Chlordane    | 0.0200 | U J   |
| 5103-71-9  | alpha-Chlordane    | 0.0200 | U J   |
| 959-98-8   | Endosulfan I       | 0.0200 | U J   |
| 72-55-9    | p,p'-DDE           | 0.0500 | U J   |
| 60-57-1    | Dieldrin           | 0.0500 | U J   |
| 72-20-8    | Endrin             | 0.0500 | U J   |
| 72-54-8    | p,p'-DDD           | 0.0500 | U J   |
| 33213-65-9 | Endosulfan II      | 0.0500 | U J   |
| 50-29-3    | p,p'-DDT           | 0.0500 | U     |
| 7421-93-4  | Endrin Aldehyde    | 0.0500 | U     |
| 1031-07-8  | Endosulfan Sulfate | 0.0500 | U     |
| 72-43-5    | Methoxychlor       | 0.2500 | U     |
| 53494-70-5 | Endrin ketone      | 0.0500 | U     |
| 12674-11-2 | Aroclor 1016       | 0.1000 | U     |
| 11141-16-5 | Aroclor 1232       | 0.1000 | U     |
| 53469-21-9 | Aroclor 1242       | 0.1000 | U     |
| 12672-29-6 | Aroclor 1248       | 0.1000 | U     |
| 11097-69-1 | Aroclor 1254       | 0.1000 | U     |
| 11096-82-5 | Aroclor 1260       | 0.1000 | U     |
| 1104-28-2  | Aroclor 1221*      |        |       |
|            | *NOT ANALYZED (NA) |        |       |
|            |                    |        |       |
|            |                    |        |       |
|            |                    |        |       |
|            |                    |        |       |
|            |                    |        |       |
|            |                    |        |       |
|            |                    |        |       |
|            |                    |        |       |
|            |                    |        |       |
|            |                    |        |       |
|            |                    |        |       |

gmp 4/04/02

Pesticide/PCB Results  
SUMMARY

2001SK01S01

Site Name:HIMCO LANDFILL  
Lab Code:USEPA REG. V Case No:20010009

Matrix: water

| CAS No.    | Analyte Name       | ug/L   | flags |
|------------|--------------------|--------|-------|
| 319-84-6   | alpha-BHC          | 0.0200 | U J   |
| 58-89-9    | Lindane            | 0.0200 | U J   |
| 319-85-7   | beta-BHC           | 0.0200 | U J   |
| 76-44-8    | Heptachlor         | 0.0200 | U J   |
| 319-86-8   | delta-BHC          | 0.0200 | U J   |
| 309-00-2   | Aldrin             | 0.0200 | U J   |
| 1024-57-3  | Hept Epoxide       | 0.0200 | U J   |
| 5103-74-2  | gamma-Chlordane    | 0.0200 | U J   |
| 5103-71-9  | alpha-Chlordane    | 0.0200 | U J   |
| 959-98-8   | Endosulfan I       | 0.0200 | U J   |
| 72-55-9    | p,p'-DDE           | 0.0500 | U J   |
| 60-57-1    | Dieldrin           | 0.0500 | U J   |
| 72-20-8    | Endrin             | 0.0500 | U J   |
| 72-54-8    | p,p'-DDD           | 0.0500 | U J   |
| 33213-65-9 | Endosulfan II      | 0.0500 | U J   |
| 50-29-3    | p,p'-DDT           | 0.0500 | U J   |
| 7421-93-4  | Endrin Aldehyde    | 0.0500 | U J   |
| 1031-07-8  | Endosulfan Sulfate | 0.0500 | U J   |
| 72-43-5    | Methoxychlor       | 0.2500 | U J   |
| 53494-70-5 | Endrin ketone      | 0.0500 | U J   |
| 12674-11-2 | Aroclor 1016       | 0.1000 | U J   |
| 11141-16-5 | Aroclor 1232       | 0.1000 | U J   |
| 53469-21-9 | Aroclor 1242       | 0.1000 | U J   |
| 12672-29-6 | Aroclor 1248       | 0.1000 | U J   |
| 11097-69-1 | Aroclor 1254       | 0.1000 | U J   |
| 11096-82-5 | Aroclor 1260       | 0.1000 | U J   |
| 1104-28-2  | Aroclor 1221*      |        |       |
|            | *NOT ANALYZED (NA) |        |       |
|            |                    |        |       |
|            |                    |        |       |
|            |                    |        |       |
|            |                    |        |       |
|            |                    |        |       |
|            |                    |        |       |
|            |                    |        |       |

mp 4/04/02

Pesticide/PCB Results  
SUMMARY

2001SK01S02

Site Name:HIMCO LANDFILL  
b Code:USEPA REG. V Case No:20010009

Matrix: water

| CAS No.    | Analyte Name       | ug/L   | flags |
|------------|--------------------|--------|-------|
| 319-84-6   | alpha-BHC          | 0.0200 | U J   |
| 58-89-9    | Lindane            | 0.0200 | U J   |
| 319-85-7   | beta-BHC           | 0.0200 | U     |
| 76-44-8    | Heptachlor         | 0.0200 | U     |
| 319-86-8   | delta-BHC          | 0.0200 | U J   |
| 309-00-2   | Aldrin             | 0.0200 | U     |
| 1024-57-3  | Hept Epoxide       | 0.0200 | U     |
| 5103-74-2  | gamma-Chlordane    | 0.0200 | U J   |
| 5103-71-9  | alpha-Chlordane    | 0.0200 | U J   |
| 59-98-8    | Endosulfan I       | 0.0200 | U J   |
| 72-55-9    | p,p'-DDE           | 0.0500 | U J   |
| 60-57-1    | Dieldrin           | 0.0500 | U J   |
| 72-20-8    | Endrin             | 0.0500 | U J   |
| 72-54-8    | p,p'-DDD           | 0.0500 | U J   |
| 33213-65-9 | Endosulfan II      | 0.0500 | U J   |
| 50-29-3    | p,p'-DDT           | 0.0500 | U     |
| 7421-93-4  | Endrin Aldehyde    | 0.0500 | U     |
| 1031-07-8  | Endosulfan Sulfate | 0.0500 | U     |
| 72-43-5    | Methoxychlor       | 0.2500 | U     |
| 53494-70-5 | Endrin ketone      | 0.0500 | U     |
| 12674-11-2 | Aroclor 1016       | 0.1000 | U     |
| 11141-16-5 | Aroclor 1232       | 0.1000 | U     |
| 53469-21-9 | Aroclor 1242       | 0.1000 | U     |
| 12672-29-6 | Aroclor 1248       | 0.1000 | U     |
| 11097-69-1 | Aroclor 1254       | 0.1000 | U     |
| 11096-82-5 | Aroclor 1260       | 0.1000 | U     |
| 1104-28-2  | Aroclor 1221*      |        |       |
|            | *NOT ANALYZED (NA) |        |       |
|            |                    |        |       |
|            |                    |        |       |
|            |                    |        |       |
|            |                    |        |       |
|            |                    |        |       |
|            |                    |        |       |
|            |                    |        |       |
|            |                    |        |       |
|            |                    |        |       |
|            |                    |        |       |
|            |                    |        |       |

dmp 4/04/02

Pesticide/PCB Results  
SUMMARY

2001SKO1DO2

Site Name:HIMCO LANDFILL  
Lab Code:USEPA REG. V Case No:20010009

Matrix: water

| CAS No.    | Analyte Name       | ug/L   | flags |
|------------|--------------------|--------|-------|
| 319-84-6   | alpha-BHC          | 0.0200 | U J   |
| 58-89-9    | Lindane            | 0.0200 | U J   |
| 319-85-7   | beta-BHC           | 0.0200 | U     |
| 76-44-8    | Heptachlor         | 0.0200 | U     |
| 319-86-8   | delta-BHC          | 0.0200 | U J   |
| 309-00-2   | Aldrin             | 0.0200 | U     |
| 1024-57-3  | Hept Epoxide       | 0.0200 | U     |
| 5103-74-2  | gamma-Chlordane    | 0.0200 | U J   |
| 5103-71-9  | alpha-Chlordane    | 0.0200 | U J   |
| 959-98-8   | Endosulfan I       | 0.0200 | U J   |
| 72-55-9    | p,p'-DDE           | 0.0500 | U J   |
| 60-57-1    | Dieldrin           | 0.0500 | U J   |
| 72-20-8    | Endrin             | 0.0500 | U J   |
| 72-54-8    | p,p'-DDD           | 0.0500 | U J   |
| 33213-65-9 | Endosulfan II      | 0.0500 | U J   |
| 50-29-3    | p,p'-DDT           | 0.0500 | U     |
| 7421-93-4  | Endrin Aldehyde    | 0.0500 | U     |
| 1031-07-8  | Endosulfan Sulfate | 0.0500 | U     |
| 72-43-5    | Methoxychlor       | 0.2500 | U     |
| 53494-70-5 | Endrin ketone      | 0.0500 | U     |
| 12674-11-2 | Aroclor 1016       | 0.1000 | U     |
| 11141-16-5 | Aroclor 1232       | 0.1000 | U     |
| 53469-21-9 | Aroclor 1242       | 0.1000 | U     |
| 12672-29-6 | Aroclor 1248       | 0.1000 | U     |
| 11097-69-1 | Aroclor 1254       | 0.1000 | U     |
| 11096-82-5 | Aroclor 1260       | 0.1000 | U     |
| 1104-28-2  | Aroclor 1221*      |        |       |
|            | *NOT ANALYZED (NA) |        |       |
|            |                    |        |       |
|            |                    |        |       |
|            |                    |        |       |
|            |                    |        |       |

*mg* 4104102

Pesticide/PCB Results  
SUMMARY

2001SK01S03

Site Name:HIMCO LANDFILL

b Code:USEPA REG. V Case No:20010009

Matrix: water

| CAS No.    | Analyte Name       | ug/L   | flags |
|------------|--------------------|--------|-------|
| 319-84-6   | alpha-BHC          | 0.0200 | U J   |
| 58-89-9    | Lindane            | 0.0200 | U J   |
| 319-85-7   | beta-BHC           | 0.0200 | U J   |
| 76-44-8    | Heptachlor         | 0.0200 | U J   |
| 319-86-8   | delta-BHC          | 0.0200 | U J   |
| 309-00-2   | Aldrin             | 0.0200 | U J   |
| 1024-57-3  | Hept Epoxide       | 0.0200 | U J   |
| 5103-74-2  | gamma-Chlordane    | 0.0200 | U J   |
| 5103-71-9  | alpha-Chlordane    | 0.0200 | U J   |
| 759-98-8   | Endosulfan I       | 0.0200 | U J   |
| 72-55-9    | p,p'-DDE           | 0.0500 | U J   |
| 60-57-1    | Dieldrin           | 0.0500 | U J   |
| 72-20-8    | Endrin             | 0.0500 | U J   |
| 72-54-8    | p,p'-DDD           | 0.0500 | U J   |
| 33213-65-9 | Endosulfan II      | 0.0500 | U J   |
| 50-29-3    | p,p'-DDT           | 0.0500 | U J   |
| 7421-93-4  | Endrin Aldehyde    | 0.0500 | U J   |
| 1031-07-8  | Endosulfan Sulfate | 0.0500 | U J   |
| 72-43-5    | Methoxychlor       | 0.2500 | U J   |
| 53494-70-5 | Endrin ketone      | 0.0500 | U J   |
| 12674-11-2 | Aroclor 1016       | 0.1000 | U J   |
| 11141-16-5 | Aroclor 1232       | 0.1000 | U J   |
| 53469-21-9 | Aroclor 1242       | 0.1000 | U J   |
| 12672-29-6 | Aroclor 1248       | 0.1000 | U J   |
| 11097-69-1 | Aroclor 1254       | 0.1000 | U J   |
| 11096-82-5 | Aroclor 1260       | 0.1000 | U J   |
| 104-28-2   | Aroclor 1221*      |        |       |
|            | *NOT ANALYZED (NA) |        |       |
|            |                    |        |       |
|            |                    |        |       |
|            |                    |        |       |
|            |                    |        |       |
|            |                    |        |       |
|            |                    |        |       |
|            |                    |        |       |
|            |                    |        |       |

mp 4/04/02





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 5 CENTRAL REGIONAL LABORATORY

536 SOUTH CLARK STREET

CHICAGO, ILLINOIS 60605

Date: Dec 10 1990

Subject: Review of Region 5 Data for Himco Dump Code:054J

From: ESAT, Chemist  
Region 5 Central Regional Laboratory

To: Gwen Massenburg  
SR - 6J

Attached are the results for Site: Himco Dump Code:054J

CRL Data Set Number: 20010009

for analyses of: ICP Metals

Results are reported for sample numbers: 2001SK01S01, 2001SK01S02, 2001SK01D02,  
2001SK01S03, 2001SK01S04 and 2001SK01R01

Results Status:

( x ) Acceptable for Use for most Metals

( x ) Data Qualified, but Acceptable for use where flagged "J" due to baseline drift or contamination

( ) Data Unacceptable for Use

Sylvia Griffin  
CRL Data Management Coordinator and Date Received

Date Transmitted: \_\_\_\_\_

Please have the US EPA project leader fill out the customer survey form on the Region 5 Intranet:  
<http://www.r5intra.epa.gov/crl/qa.html>, (← by clicking on this link, or call George Schupp, CRL  
Sample Coordinator, at 3-1226).

Please sign and date this form below and return it with any comments to:

Sylvia Griffin  
Data Management Coordinator  
Region 5 Central Regional Laboratory  
ML - 10C

---

Received by and Date

Comments:

1LCF  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E01TP

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004

Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: E00FL

Lab Sample ID: 6066.010      Date Received: 05/05/00

Lab File ID: H1049      Date Extracted: 05/09/00

Sample Volume: 1000 (mL)      Date Analyzed: 05/17/00

Concentrated Extract Volume: 1000 (uL)      Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

Number TICs found: 0

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC.<br>(ug/L) | Q |
|------------|---------------|----|----------------------|---|
| 1.         |               |    |                      |   |
| 2.         |               |    |                      |   |
| 3.         |               |    |                      |   |
| 4.         |               |    |                      |   |
| 5.         |               |    |                      |   |
| 6.         |               |    |                      |   |
| 7.         |               |    |                      |   |
| 8.         |               |    |                      |   |
| 9.         |               |    |                      |   |
| 10.        |               |    |                      |   |
| 11.        |               |    |                      |   |
| 12.        |               |    |                      |   |
| 13.        |               |    |                      |   |
| 14.        |               |    |                      |   |
| 15.        |               |    |                      |   |
| 16.        |               |    |                      |   |
| 17.        |               |    |                      |   |
| 18.        |               |    |                      |   |
| 19.        |               |    |                      |   |
| 20.        |               |    |                      |   |
| 21.        |               |    |                      |   |
| 22.        |               |    |                      |   |
| 23.        |               |    |                      |   |
| 24.        |               |    |                      |   |
| 25.        |               |    |                      |   |
| 26.        |               |    |                      |   |
| 27.        |               |    |                      |   |
| 28.        |               |    |                      |   |
| 29.        |               |    |                      |   |
| 30.        |               |    |                      |   |

1LCB  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E01TQ

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: E00FL

Lab Sample ID: 6066.011

Date Received: 05/05/00

Lab File ID: H1050

Date Extracted: 05/09/00

Sample Volume: 1000 (mL)

Date Analyzed: 05/17/00

Concentrated Extract Volume: 1000 (uL)

Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

| CAS NO.  | COMPOUND                     | CONCENTRATION<br>(ug/L) | Q |
|----------|------------------------------|-------------------------|---|
| 108-95-2 | Phenol                       | 5                       | U |
| 111-44-4 | bis(2-Chloroethyl) ether     | 5                       | U |
| 95-57-8  | 2-Chlorophenol               | 5                       | U |
| 95-48-7  | 2-Methylphenol               | 5                       | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 5                       | U |
| 106-44-5 | 4-Methylphenol               | 5                       | U |
| 621-64-7 | N-Nitroso-di-n-propylamine   | 5                       | U |
| 67-72-1  | Hexachloroethane             | 5                       | U |
| 98-95-3  | Nitrobenzene                 | 5                       | U |
| 78-59-1  | Isophorone                   | 5                       | U |
| 88-75-5  | 2-Nitrophenol                | 5                       | U |
| 105-67-9 | 2,4-Dimethylphenol           | 5                       | U |
| 111-91-1 | bis(2-Chloroethoxy)methane   | 5                       | U |
| 120-83-2 | 2,4-Dichlorophenol           | 5                       | U |
| 91-20-3  | Naphthalene                  | 5                       | U |
| 106-47-8 | 4-Chloroaniline              | 5                       | U |
| 87-68-3  | Hexachlorobutadiene          | 5                       | U |
| 59-50-7  | 4-Chloro-3-methylphenol      | 5                       | U |
| 91-57-6  | 2-Methylnaphthalene          | 5                       | U |
| 77-47-4  | Hexachlorocyclopentadiene    | 5                       | U |
| 88-06-2  | 2,4,6-Trichlorophenol        | 5                       | U |
| 95-95-4  | 2,4,5-Trichlorophenol        | 20                      | U |
| 91-58-7  | 2-Chloronaphthalane          | 5                       | U |
| 88-74-4  | 2-Nitroaniline               | 20                      | U |
| 131-11-3 | Dimethylphthalate            | 5                       | U |
| 208-96-8 | Acenaphthylene               | 5                       | U |
| 606-20-2 | 2,6-Dinitrotoluene           | 5                       | U |
| 99-09-2  | 3-Nitroaniline               | 20                      | U |
| 83-32-9  | Acenaphthene                 | 5                       | U |

1LCC  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E01TQ

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: E00FL

Lab Sample ID: 6066.011

Date Received: 05/05/00

Lab File ID: H1050

Date Extracted: 05/09/00

Sample Volume: 1000 (mL)

Date Analyzed: 05/17/00

Concentrated Extract Volume: 1000 (uL)

Dilution Factor: 1.0

Injection Volume: 1 (uL)

| CAS NO.   | COMPOUND                   | CONCENTRATION<br>(ug/L) | Q |
|-----------|----------------------------|-------------------------|---|
| 51-28-5   | 2,4-Dinitrophenol          | 20                      | U |
| 100-02-7  | 4-Nitrophenol              | 20                      | U |
| 132-64-9  | Dibenzofuran               | 5                       | U |
| 121-14-2  | 2,4-Dinitrotoluene         | 5                       | U |
| 84-66-2   | Diethylphthalate           | 5                       | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 5                       | U |
| 86-73-7   | Fluorene                   | 5                       | U |
| 100-01-6  | 4-Nitroaniline             | 20                      | U |
| 534-52-1  | 4,6-Dinitro-2-methylphenol | 20                      | U |
| 86-30-6   | N-Nitrosodiphenylamine (1) | 5                       | U |
| 101-55-3  | 4-Bromophenyl-phenylether  | 5                       | U |
| 118-74-1  | Hexachlorobenzene          | 5                       | U |
| 87-86-5   | Pentachlorophenol          | 20                      | U |
| 85-01-8   | Phenanthrene               | 5                       | U |
| 120-12-7  | Anthracene                 | 5                       | U |
| 84-74-2   | Di-n-butylphthalate        | 5                       | U |
| 206-44-0  | Fluoranthene               | 5                       | U |
| 129-00-0  | Pyrene                     | 5                       | U |
| 85-68-7   | Butylbenzylphthalate       | 5                       | U |
| 91-94-1   | 3,3'-Dichlorobenzidine     | 5                       | U |
| 56-55-3   | Benzo(a)anthracene         | 5                       | U |
| 218-01-9  | Chrysene                   | 5                       | U |
| 117-81-7  | bis(2-Ethylhexyl)phthalate | 1                       | J |
| 117-84-0  | Di-n-octylphthalate        | 5                       | U |
| 205-99-2  | Benzo(b)fluoranthene       | 5                       | U |
| 207-08-9  | Benzo(k)fluoranthene       | 5                       | U |
| 50-32-8   | Benzo(a)pyrene             | 5                       | U |
| 193-39-5  | Indeno(1,2,3-cd)Pyrene     | 5                       | U |
| 53-70-3   | Dibenz(a,h)anthracene      | 5                       | U |
| 191-24-2  | Benzo(g,h,i)perylene       | 5                       | U |

(1) - Cannot be separated from Diphenylamine

1LCF  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E01TQ

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004

Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: E00FL

Lab Sample ID: 6066.011      Date Received: 05/05/00

Lab File ID: H1050      Date Extracted: 05/09/00

Sample Volume: 1000 (mL)      Date Analyzed: 05/17/00

Concentrated Extract Volume: 1000 (uL)      Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

Number TICs found: 0

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC.<br>(ug/L) | Q |
|------------|---------------|----|----------------------|---|
| 1.         |               |    |                      |   |
| 2.         |               |    |                      |   |
| 3.         |               |    |                      |   |
| 4.         |               |    |                      |   |
| 5.         |               |    |                      |   |
| 6.         |               |    |                      |   |
| 7.         |               |    |                      |   |
| 8.         |               |    |                      |   |
| 9.         |               |    |                      |   |
| 10.        |               |    |                      |   |
| 11.        |               |    |                      |   |
| 12.        |               |    |                      |   |
| 13.        |               |    |                      |   |
| 14.        |               |    |                      |   |
| 15.        |               |    |                      |   |
| 16.        |               |    |                      |   |
| 17.        |               |    |                      |   |
| 18.        |               |    |                      |   |
| 19.        |               |    |                      |   |
| 20.        |               |    |                      |   |
| 21.        |               |    |                      |   |
| 22.        |               |    |                      |   |
| 23.        |               |    |                      |   |
| 24.        |               |    |                      |   |
| 25.        |               |    |                      |   |
| 26.        |               |    |                      |   |
| 27.        |               |    |                      |   |
| 28.        |               |    |                      |   |
| 29.        |               |    |                      |   |
| 30.        |               |    |                      |   |

1LCB  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ECFN2

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: E00FL

Lab Sample ID: 6066.003

Date Received: 05/05/00

Lab File ID: H1041

Date Extracted: 05/09/00

Sample Volume: 1000 (mL)

Date Analyzed: 05/16/00

Concentrated Extract Volume: 1000 (uL)

Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

| CAS NO.  | COMPOUND                     | CONCENTRATION<br>(ug/L) | Q |
|----------|------------------------------|-------------------------|---|
| 108-95-2 | Phenol                       | 5                       | U |
| 111-44-4 | bis(2-Chloroethyl) ether     | 5                       | U |
| 95-57-8  | 2-Chlorophenol               | 5                       | U |
| 95-48-7  | 2-Methylphenol               | 5                       | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 5                       | U |
| 106-44-5 | 4-Methylphenol               | 5                       | U |
| 621-64-7 | N-Nitroso-di-n-propylamine   | 5                       | U |
| 67-72-1  | Hexachloroethane             | 5                       | U |
| 98-95-3  | Nitrobenzene                 | 5                       | U |
| 78-59-1  | Isophorone                   | 5                       | U |
| 88-75-5  | 2-Nitrophenol                | 5                       | U |
| 105-67-9 | 2,4-Dimethylphenol           | 5                       | U |
| 111-91-1 | bis(2-Chloroethoxy)methane   | 5                       | U |
| 120-83-2 | 2,4-Dichlorophenol           | 5                       | U |
| 91-20-3  | Naphthalene                  | 5                       | U |
| 106-47-8 | 4-Chloroaniline              | 5                       | U |
| 87-68-3  | Hexachlorobutadiene          | 5                       | U |
| 59-50-7  | 4-Chloro-3-methylphenol      | 5                       | U |
| 91-57-6  | 2-Methylnaphthalene          | 5                       | U |
| 77-47-4  | Hexachlorocyclopentadiene    | 5                       | U |
| 88-06-2  | 2,4,6-Trichlorophenol        | 5                       | U |
| 95-95-4  | 2,4,5-Trichlorophenol        | 20                      | U |
| 91-58-7  | 2-Chloronaphthalene          | 5                       | U |
| 88-74-4  | 2-Nitroaniline               | 20                      | U |
| 131-11-3 | Dimethylphthalate            | 5                       | U |
| 208-96-8 | Acenaphthylene               | 5                       | U |
| 606-20-2 | 2,6-Dinitrotoluene           | 5                       | U |
| 99-09-2  | 3-Nitroaniline               | 20                      | U |
| 83-32-9  | Acenaphthene                 | 5                       | U |

1LCC  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ECFN2

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: E00FL

Lab Sample ID: 6066.003

Date Received: 05/05/00

Lab File ID: H1041

Date Extracted: 05/09/00

Sample Volume: 1000 (mL)

Date Analyzed: 05/16/00

Concentrated Extract Volume: 1000 (uL)

Dilution Factor: 1.0

Injection Volume: 1 (uL)

| CAS NO.   | COMPOUND                   | CONCENTRATION (ug/L) | Q |
|-----------|----------------------------|----------------------|---|
| 51-28-5   | 2,4-Dinitrophenol          | 20                   | U |
| 100-02-7  | 4-Nitrophenol              | 20                   | U |
| 132-64-9  | Dibenzofuran               | 5                    | U |
| 121-14-2  | 2,4-Dinitrotoluene         | 5                    | U |
| 84-66-2   | Diethylphthalate           | 3                    | J |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 5                    | U |
| 86-73-7   | Fluorene                   | 5                    | U |
| 100-01-6  | 4-Nitroaniline             | 20                   | U |
| 534-52-1  | 4,6-Dinitro-2-methylphenol | 20                   | U |
| 86-30-6   | N-Nitrosodiphenylamine (1) | 5                    | U |
| 101-55-3  | 4-Bromophenyl-phenylether  | 5                    | U |
| 118-74-1  | Hexachlorobenzene          | 5                    | U |
| 87-86-5   | Pentachlorophenol          | 20                   | U |
| 85-01-8   | Phenanthrene               | 5                    | U |
| 120-12-7  | Anthracene                 | 5                    | U |
| 84-74-2   | Di-n-butylphthalate        | 5                    | U |
| 206-44-0  | Fluoranthene               | 5                    | U |
| 129-00-0  | Pyrene                     | 5                    | U |
| 85-68-7   | Butylbenzylphthalate       | 5                    | U |
| 91-94-1   | 3,3'-Dichlorobenzidine     | 5                    | U |
| 56-55-3   | Benzo(a)anthracene         | 5                    | U |
| 218-01-9  | Chrysene                   | 5                    | U |
| 117-81-7  | bis(2-Ethylhexyl)phthalate | 8                    |   |
| 117-84-0  | Di-n-octylphthalate        | 5                    | U |
| 205-99-2  | Benzo(b)fluoranthene       | 5                    | U |
| 207-08-9  | Benzo(k)fluoranthene       | 5                    | U |
| 50-32-8   | Benzo(a)pyrene             | 5                    | U |
| 193-39-5  | Indeno(1,2,3-cd)Pyrene     | 5                    | U |
| 53-70-3   | Dibenz(a,h)anthracene      | 5                    | U |
| 191-24-2  | Benzo(g,h,i)perylene       | 5                    | U |

(1) - Cannot be separated from Diphenylamine

1LCF  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ECFN2

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004

Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: E00FL

Lab Sample ID: 6066.003      Date Received: 05/05/00

Lab File ID: H1041      Date Extracted: 05/09/00

Sample Volume: 1000 (mL)      Date Analyzed: 05/16/00

Concentrated Extract Volume: 1000 (uL)      Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

Number TICs found: 1

| CAS NUMBER    | COMPOUND NAME         | RT    | EST. CONC.<br>(ug/L) | Q  |
|---------------|-----------------------|-------|----------------------|----|
| 1. 000934-34- | 2(3H)-Benzothiazolone | 21.01 | 23                   | JN |
| 2.            |                       |       |                      |    |
| 3.            |                       |       |                      |    |
| 4.            |                       |       |                      |    |
| 5.            |                       |       |                      |    |
| 6.            |                       |       |                      |    |
| 7.            |                       |       |                      |    |
| 8.            |                       |       |                      |    |
| 9.            |                       |       |                      |    |
| 10.           |                       |       |                      |    |
| 11.           |                       |       |                      |    |
| 12.           |                       |       |                      |    |
| 13.           |                       |       |                      |    |
| 14.           |                       |       |                      |    |
| 15.           |                       |       |                      |    |
| 16.           |                       |       |                      |    |
| 17.           |                       |       |                      |    |
| 18.           |                       |       |                      |    |
| 19.           |                       |       |                      |    |
| 20.           |                       |       |                      |    |
| 21.           |                       |       |                      |    |
| 22.           |                       |       |                      |    |
| 23.           |                       |       |                      |    |
| 24.           |                       |       |                      |    |
| 25.           |                       |       |                      |    |
| 26.           |                       |       |                      |    |
| 27.           |                       |       |                      |    |
| 28.           |                       |       |                      |    |
| 29.           |                       |       |                      |    |
| 30.           |                       |       |                      |    |

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

ILCB

EPA SAMPLE NO.

ECFN3

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: E00FL

Lab Sample ID: 6066.004

Date Received: 05/05/00

Lab File ID: H1042

Date Extracted: 05/09/00

Sample Volume: 1000 (mL)

Date Analyzed: 05/16/00

Concentrated Extract Volume: 1000 (uL)

Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

| CAS NO.  | COMPOUND                     | CONCENTRATION (ug/L) | Q |
|----------|------------------------------|----------------------|---|
| 108-95-2 | Phenol                       | 5                    | U |
| 111-44-4 | bis(2-Chloroethyl) ether     | 5                    | U |
| 95-57-8  | 2-Chlorophenol               | 5                    | U |
| 95-48-7  | 2-Methylphenol               | 5                    | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 5                    | U |
| 106-44-5 | 4-Methylphenol               | 5                    | U |
| 621-64-7 | N-Nitroso-di-n-propylamine   | 5                    | U |
| 67-72-1  | Hexachloroethane             | 5                    | U |
| 98-95-3  | Nitrobenzene                 | 5                    | U |
| 78-59-1  | Isophorone                   | 5                    | U |
| 88-75-5  | 2-Nitrophenol                | 5                    | U |
| 105-67-9 | 2,4-Dimethylphenol           | 5                    | U |
| 111-91-1 | bis(2-Chloroethoxy)methane   | 5                    | U |
| 120-83-2 | 2,4-Dichlorophenol           | 5                    | U |
| 91-20-3  | Naphthalene                  | 5                    | U |
| 106-47-8 | 4-Chloroaniline              | 5                    | U |
| 87-68-3  | Hexachlorobutadiene          | 5                    | U |
| 59-50-7  | 4-Chloro-3-methylphenol      | 5                    | U |
| 91-57-6  | 2-Methylnaphthalene          | 5                    | U |
| 77-47-4  | Hexachlorocyclopentadiene    | 5                    | U |
| 88-06-2  | 2,4,6-Trichlorophenol        | 5                    | U |
| 95-95-4  | 2,4,5-Trichlorophenol        | 20                   | U |
| 91-58-7  | 2-Chloronaphthalene          | 5                    | U |
| 88-74-4  | 2-Nitroaniline               | 20                   | U |
| 131-11-3 | Dimethylphthalate            | 5                    | U |
| 208-96-8 | Acenaphthylene               | 5                    | U |
| 606-20-2 | 2,6-Dinitrotoluene           | 5                    | U |
| 99-09-2  | 3-Nitroaniline               | 20                   | U |
| 83-32-9  | Acenaphthene                 | 5                    | U |

1LCC  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ECFN3

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004  
 Lab Code: PDP Case No.: 27986 SAS No.: \_\_\_\_\_ SDG No.: E00FL  
 Lab Sample ID: 6066.004 Date Received: 05/05/00  
 Lab File ID: H1042 Date Extracted: 05/09/00  
 Sample Volume: 1000 (mL) Date Analyzed: 05/16/00  
 Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0  
 Injection Volume: 1 (uL)

| CAS NO.   | COMPOUND                   | CONCENTRATION<br>(ug/L) | Q |
|-----------|----------------------------|-------------------------|---|
| 51-28-5   | 2,4-Dinitrophenol          | 20                      | U |
| 100-02-7  | 4-Nitrophenol              | 20                      | U |
| 132-64-9  | Dibenzofuran               | 5                       | U |
| 121-14-2  | 2,4-Dinitrotoluene         | 5                       | U |
| 84-66-2   | Diethylphthalate           | 4                       | J |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 5                       | U |
| 86-73-7   | Fluorene                   | 5                       | U |
| 100-01-6  | 4-Nitroaniline             | 20                      | U |
| 534-52-1  | 4,6-Dinitro-2-methylphenol | 20                      | U |
| 86-30-6   | N-Nitrosodiphenylamine (1) | 5                       | U |
| 101-55-3  | 4-Bromophenyl-phenylether  | 5                       | U |
| 118-74-1  | Hexachlorobenzene          | 5                       | U |
| 87-86-5   | Pentachlorophenol          | 20                      | U |
| 85-01-8   | Phenanthrene               | 5                       | U |
| 120-12-7  | Anthracene                 | 5                       | U |
| 84-74-2   | Di-n-butylphthalate        | 5                       | U |
| 206-44-0  | Fluoranthene               | 5                       | U |
| 129-00-0  | Pyrene                     | 5                       | U |
| 85-68-7   | Butylbenzylphthalate       | 5                       | U |
| 91-94-1   | 3,3'-Dichlorobenzidine     | 5                       | U |
| 56-55-3   | Benzo(a)anthracene         | 5                       | U |
| 218-01-9  | Chrysene                   | 5                       | U |
| 117-81-7  | bis(2-Ethylhexyl)phthalate | 4                       | J |
| 117-84-0  | Di-n-octylphthalate        | 5                       | U |
| 205-99-2  | Benzo(b)fluoranthene       | 5                       | U |
| 207-08-9  | Benzo(k)fluoranthene       | 5                       | U |
| 50-32-8   | Benzo(a)pyrene             | 5                       | U |
| 193-39-5  | Indeno(1,2,3-cd)Pyrene     | 5                       | U |
| 53-70-3   | Dibenz(a,h)anthracene      | 5                       | U |
| 191-24-2  | Benzo(g,h,i)perylene       | 5                       | U |

(1) - Cannot be separated from Diphenylamine

1LCF  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ECFN3

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004

Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: E00FL

Lab Sample ID: 6066.004      Date Received: 05/05/00

Lab File ID: H1042      Date Extracted: 05/09/00

Sample Volume: 1000 (mL)      Date Analyzed: 05/16/00

Concentrated Extract Volume: 1000 (uL)      Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

Number TICs found: 1

| CAS NUMBER    | COMPOUND NAME         | RT    | EST. CONC.<br>(ug/L) | Q  |
|---------------|-----------------------|-------|----------------------|----|
| 1. 000934-34- | 2(3H)-Benzothiazolone | 22.95 | 21                   | JN |
| 2.            |                       |       |                      |    |
| 3.            |                       |       |                      |    |
| 4.            |                       |       |                      |    |
| 5.            |                       |       |                      |    |
| 6.            |                       |       |                      |    |
| 7.            |                       |       |                      |    |
| 8.            |                       |       |                      |    |
| 9.            |                       |       |                      |    |
| 10.           |                       |       |                      |    |
| 11.           |                       |       |                      |    |
| 12.           |                       |       |                      |    |
| 13.           |                       |       |                      |    |
| 14.           |                       |       |                      |    |
| 15.           |                       |       |                      |    |
| 16.           |                       |       |                      |    |
| 17.           |                       |       |                      |    |
| 18.           |                       |       |                      |    |
| 19.           |                       |       |                      |    |
| 20.           |                       |       |                      |    |
| 21.           |                       |       |                      |    |
| 22.           |                       |       |                      |    |
| 23.           |                       |       |                      |    |
| 24.           |                       |       |                      |    |
| 25.           |                       |       |                      |    |
| 26.           |                       |       |                      |    |
| 27.           |                       |       |                      |    |
| 28.           |                       |       |                      |    |
| 29.           |                       |       |                      |    |
| 30.           |                       |       |                      |    |

1LCB  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ECFN4

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004  
 Lab Code: PDP Case No.: 27986 SAS No.: \_\_\_\_\_ SDG No.: E00FL  
 Lab Sample ID: 6066.005 Date Received: 05/05/00  
 Lab File ID: H1043 Date Extracted: 05/09/00  
 Sample Volume: 1000 (mL) Date Analyzed: 05/16/00  
 Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0  
 Injection Volume: 1.0 (uL)

| CAS NO.  | COMPOUND                     | CONCENTRATION<br>(ug/L) | Q |
|----------|------------------------------|-------------------------|---|
| 108-95-2 | Phenol                       | 5                       | U |
| 111-44-4 | bis(2-Chloroethyl) ether     | 5                       | U |
| 95-57-8  | 2-Chlorophenol               | 5                       | U |
| 95-48-7  | 2-Methylphenol               | 5                       | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 5                       | U |
| 106-44-5 | 4-Methylphenol               | 5                       | U |
| 621-64-7 | N-Nitroso-di-n-propylamine   | 5                       | U |
| 67-72-1  | Hexachloroethane             | 5                       | U |
| 98-95-3  | Nitrobenzene                 | 5                       | U |
| 78-59-1  | Isophorone                   | 5                       | U |
| 88-75-5  | 2-Nitrophenol                | 5                       | U |
| 105-67-9 | 2,4-Dimethylphenol           | 5                       | U |
| 111-91-1 | bis(2-Chloroethoxy)methane   | 5                       | U |
| 120-83-2 | 2,4-Dichlorophenol           | 5                       | U |
| 91-20-3  | Naphthalene                  | 5                       | U |
| 106-47-8 | 4-Chloroaniline              | 5                       | U |
| 87-68-3  | Hexachlorobutadiene          | 5                       | U |
| 59-50-7  | 4-Chloro-3-methylphenol      | 5                       | U |
| 91-57-6  | 2-Methylnaphthalene          | 5                       | U |
| 77-47-4  | Hexachlorocyclopentadiene    | 5                       | U |
| 88-06-2  | 2,4,6-Trichlorophenol        | 5                       | U |
| 95-95-4  | 2,4,5-Trichlorophenol        | 20                      | U |
| 91-58-7  | 2-Chloronaphthalene          | 5                       | U |
| 88-74-4  | 2-Nitroaniline               | 20                      | U |
| 131-11-3 | Dimethylphthalate            | 5                       | U |
| 208-96-8 | Acenaphthylene               | 5                       | U |
| 606-20-2 | 2,6-Dinitrotoluene           | 5                       | U |
| 99-09-2  | 3-Nitroaniline               | 20                      | U |
| 83-32-9  | Acenaphthene                 | 5                       | U |

1LCC  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ECFN4

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: E00FL

Lab Sample ID: 6066.005

Date Received: 05/05/00

Lab File ID: H1043

Date Extracted: 05/09/00

Sample Volume: 1000 (mL)

Date Analyzed: 05/16/00

Concentrated Extract Volume: 1000 (uL)

Dilution Factor: 1.0

Injection Volume: 1 (uL)

| CAS NO.        | COMPOUND                   | CONCENTRATION<br>(ug/L) | Q |
|----------------|----------------------------|-------------------------|---|
| 51-28-5-----   | 2,4-Dinitrophenol          | 20                      | U |
| 100-02-7-----  | 4-Nitrophenol              | 20                      | U |
| 132-64-9-----  | Dibenzofuran               | 5                       | U |
| 121-14-2-----  | 2,4-Dinitrotoluene         | 5                       | U |
| 84-66-2-----   | Diethylphthalate           | 2                       | J |
| 7005-72-3----- | 4-Chlorophenyl-phenylether | 5                       | U |
| 86-73-7-----   | Fluorene                   | 5                       | U |
| 100-01-6-----  | 4-Nitroaniline             | 20                      | U |
| 534-52-1-----  | 4,6-Dinitro-2-methylphenol | 20                      | U |
| 86-30-6-----   | N-Nitrosodiphenylamine (1) | 5                       | U |
| 101-55-3-----  | 4-Bromophenyl-phenylether  | 5                       | U |
| 118-74-1-----  | Hexachlorobenzene          | 5                       | U |
| 87-86-5-----   | Pentachlorophenol          | 20                      | U |
| 85-01-8-----   | Phenanthrene               | 5                       | U |
| 120-12-7-----  | Anthracene                 | 5                       | U |
| 84-74-2-----   | Di-n-butylphthalate        | 5                       | U |
| 206-44-0-----  | Fluoranthene               | 5                       | U |
| 129-00-0-----  | Pyrene                     | 5                       | U |
| 85-68-7-----   | Butylbenzylphthalate       | 5                       | U |
| 91-94-1-----   | 3,3'-Dichlorobenzidine     | 5                       | U |
| 56-55-3-----   | Benzo(a)anthracene         | 5                       | U |
| 218-01-9-----  | Chrysene                   | 5                       | U |
| 117-81-7-----  | bis(2-Ethylhexyl)phthalate | 2                       | J |
| 117-84-0-----  | Di-n-octylphthalate        | 5                       | U |
| 205-99-2-----  | Benzo(b)fluoranthene       | 5                       | U |
| 207-08-9-----  | Benzo(k)fluoranthene       | 5                       | U |
| 50-32-8-----   | Benzo(a)pyrene             | 5                       | U |
| 193-39-5-----  | Indeno(1,2,3-cd)Pyrene     | 5                       | U |
| 53-70-3-----   | Dibenz(a,h)anthracene      | 5                       | U |
| 191-24-2-----  | Benzo(g,h,i)perylene       | 5                       | U |

(1) - Cannot be separated from Diphenylamine

1LCF  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

|       |
|-------|
| ECFN4 |
|-------|

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004

Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: E00FL

Lab Sample ID: 6066.005      Date Received: 05/05/00

Lab File ID: H1043      Date Extracted: 05/09/00

Sample Volume: 1000 (mL)      Date Analyzed: 05/16/00

Concentrated Extract Volume: 1000 (uL)      Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

Number TICs found: 0

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC.<br>(ug/L) | Q |
|------------|---------------|----|----------------------|---|
| 1.         |               |    |                      |   |
| 2.         |               |    |                      |   |
| 3.         |               |    |                      |   |
| 4.         |               |    |                      |   |
| 5.         |               |    |                      |   |
| 6.         |               |    |                      |   |
| 7.         |               |    |                      |   |
| 8.         |               |    |                      |   |
| 9.         |               |    |                      |   |
| 10.        |               |    |                      |   |
| 11.        |               |    |                      |   |
| 12.        |               |    |                      |   |
| 13.        |               |    |                      |   |
| 14.        |               |    |                      |   |
| 15.        |               |    |                      |   |
| 16.        |               |    |                      |   |
| 17.        |               |    |                      |   |
| 18.        |               |    |                      |   |
| 19.        |               |    |                      |   |
| 20.        |               |    |                      |   |
| 21.        |               |    |                      |   |
| 22.        |               |    |                      |   |
| 23.        |               |    |                      |   |
| 24.        |               |    |                      |   |
| 25.        |               |    |                      |   |
| 26.        |               |    |                      |   |
| 27.        |               |    |                      |   |
| 28.        |               |    |                      |   |
| 29.        |               |    |                      |   |
| 30.        |               |    |                      |   |

1LCB  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ECFN5

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: E00FL

Lab Sample ID: 6066.006

Date Received: 05/05/00

Lab File ID: H1044

Date Extracted: 05/09/00

Sample Volume: 1000 (mL)

Date Analyzed: 05/16/00

Concentrated Extract Volume: 1000 (uL)

Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

| CAS NO.  | COMPOUND                     | CONCENTRATION<br>(ug/L) | Q |
|----------|------------------------------|-------------------------|---|
| 108-95-2 | Phenol                       | 5                       | U |
| 111-44-4 | bis(2-Chloroethyl) ether     | 5                       | U |
| 95-57-8  | 2-Chlorophenol               | 5                       | U |
| 95-48-7  | 2-Methylphenol               | 5                       | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 5                       | U |
| 106-44-5 | 4-Methylphenol               | 5                       | U |
| 621-64-7 | N-Nitroso-di-n-propylamine   | 5                       | U |
| 67-72-1  | Hexachloroethane             | 5                       | U |
| 98-95-3  | Nitrobenzene                 | 5                       | U |
| 78-59-1  | Isophorone                   | 5                       | U |
| 88-75-5  | 2-Nitrophenol                | 5                       | U |
| 105-67-9 | 2,4-Dimethylphenol           | 5                       | U |
| 111-91-1 | bis(2-Chloroethoxy) methane  | 5                       | U |
| 120-83-2 | 2,4-Dichlorophenol           | 5                       | U |
| 91-20-3  | Naphthalene                  | 5                       | U |
| 106-47-8 | 4-Chloroaniline              | 5                       | U |
| 87-68-3  | Hexachlorobutadiene          | 5                       | U |
| 59-50-7  | 4-Chloro-3-methylphenol      | 5                       | U |
| 91-57-6  | 2-Methylnaphthalene          | 5                       | U |
| 77-47-4  | Hexachlorocyclopentadiene    | 5                       | U |
| 88-06-2  | 2,4,6-Trichlorophenol        | 5                       | U |
| 95-95-4  | 2,4,5-Trichlorophenol        | 20                      | U |
| 91-58-7  | 2-Chloronaphthalene          | 5                       | U |
| 88-74-4  | 2-Nitroaniline               | 20                      | U |
| 131-11-3 | Dimethylphthalate            | 5                       | U |
| 208-96-8 | Acenaphthylene               | 5                       | U |
| 606-20-2 | 2,6-Dinitrotoluene           | 5                       | U |
| 99-09-2  | 3-Nitroaniline               | 20                      | U |
| 83-32-9  | Acenaphthene                 | 5                       | U |

1LCC  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ECFN5

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004  
 Lab Code: PDP Case No.: 27986 SAS No.: \_\_\_\_\_ SDG No.: E00FL  
 Lab Sample ID: 6066.006 Date Received: 05/05/00  
 Lab File ID: H1044 Date Extracted: 05/09/00  
 Sample Volume: 1000 (mL) Date Analyzed: 05/16/00  
 Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0  
 Injection Volume: 1 (uL)

| CAS NO.        | COMPOUND                   | CONCENTRATION<br>(ug/L) | Q |
|----------------|----------------------------|-------------------------|---|
| 51-28-5-----   | 2,4-Dinitrophenol          | 20                      | U |
| 100-02-7-----  | 4-Nitrophenol              | 20                      | U |
| 132-64-9-----  | Dibenzofuran               | 5                       | U |
| 121-14-2-----  | 2,4-Dinitrotoluene         | 5                       | U |
| 84-66-2-----   | Diethylphthalate           | 5                       | U |
| 7005-72-3----- | 4-Chlorophenyl-phenylether | 5                       | U |
| 86-73-7-----   | Fluorene                   | 5                       | U |
| 100-01-6-----  | 4-Nitroaniline             | 20                      | U |
| 534-52-1-----  | 4,6-Dinitro-2-methylphenol | 20                      | U |
| 86-30-6-----   | N-Nitrosodiphenylamine (1) | 5                       | U |
| 101-55-3-----  | 4-Bromophenyl-phenylether  | 5                       | U |
| 118-74-1-----  | Hexachlorobenzene          | 5                       | U |
| 87-86-5-----   | Pentachlorophenol          | 20                      | U |
| 85-01-8-----   | Phenanthrene               | 5                       | U |
| 120-12-7-----  | Anthracene                 | 5                       | U |
| 84-74-2-----   | Di-n-butylphthalate        | 5                       | U |
| 206-44-0-----  | Fluoranthene               | 5                       | U |
| 129-00-0-----  | Pyrene                     | 5                       | U |
| 85-68-7-----   | Butylbenzylphthalate       | 5                       | U |
| 91-94-1-----   | 3,3'-Dichlorobenzidine     | 5                       | U |
| 56-55-3-----   | Benzo(a)anthracene         | 5                       | U |
| 218-01-9-----  | Chrysene                   | 5                       | U |
| 117-81-7-----  | bis(2-Ethylhexyl)phthalate | 7                       |   |
| 117-84-0-----  | Di-n-octylphthalate        | 5                       | U |
| 205-99-2-----  | Benzo(b)fluoranthene       | 5                       | U |
| 207-08-9-----  | Benzo(k)fluoranthene       | 5                       | U |
| 50-32-8-----   | Benzo(a)pyrene             | 5                       | U |
| 193-39-5-----  | Indeno(1,2,3-cd)Pyrene     | 5                       | U |
| 53-70-3-----   | Dibenz(a,h)anthracene      | 5                       | U |
| 191-24-2-----  | Benzo(g,h,i)perylene       | 5                       | U |

(1) - Cannot be separated from Diphenylamine

1LCF  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ECFN5

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004

Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: E00FL

Lab Sample ID: 6066.006      Date Received: 05/05/00

Lab File ID: H1044      Date Extracted: 05/09/00

Sample Volume: 1000 (mL)      Date Analyzed: 05/16/00

Concentrated Extract Volume: 1000 (uL)      Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

Number TICs found:      0

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC.<br>(ug/L) | Q |
|------------|---------------|----|----------------------|---|
| 1.         |               |    |                      |   |
| 2.         |               |    |                      |   |
| 3.         |               |    |                      |   |
| 4.         |               |    |                      |   |
| 5.         |               |    |                      |   |
| 6.         |               |    |                      |   |
| 7.         |               |    |                      |   |
| 8.         |               |    |                      |   |
| 9.         |               |    |                      |   |
| 10.        |               |    |                      |   |
| 11.        |               |    |                      |   |
| 12.        |               |    |                      |   |
| 13.        |               |    |                      |   |
| 14.        |               |    |                      |   |
| 15.        |               |    |                      |   |
| 16.        |               |    |                      |   |
| 17.        |               |    |                      |   |
| 18.        |               |    |                      |   |
| 19.        |               |    |                      |   |
| 20.        |               |    |                      |   |
| 21.        |               |    |                      |   |
| 22.        |               |    |                      |   |
| 23.        |               |    |                      |   |
| 24.        |               |    |                      |   |
| 25.        |               |    |                      |   |
| 26.        |               |    |                      |   |
| 27.        |               |    |                      |   |
| 28.        |               |    |                      |   |
| 29.        |               |    |                      |   |
| 30.        |               |    |                      |   |

1LCB  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ECFN6

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004  
 Lab Code: PDP Case No.: 27986 SAS No.: \_\_\_\_\_ SDG No.: E00FL  
 Lab Sample ID: 6066.007 Date Received: 05/05/00  
 Lab File ID: H1047 Date Extracted: 05/09/00  
 Sample Volume: 1000 (mL) Date Analyzed: 05/17/00  
 Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0  
 Injection Volume: 1.0 (uL)

| CAS NO.  | COMPOUND                     | CONCENTRATION<br>(ug/L) | Q |
|----------|------------------------------|-------------------------|---|
| 108-95-2 | Phenol                       | 5                       | U |
| 111-44-4 | bis(2-Chloroethyl) ether     | 5                       | U |
| 95-57-8  | 2-Chlorophenol               | 5                       | U |
| 95-48-7  | 2-Methylphenol               | 5                       | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 5                       | U |
| 106-44-5 | 4-Methylphenol               | 5                       | U |
| 621-64-7 | N-Nitroso-di-n-propylamine   | 5                       | U |
| 67-72-1  | Hexachloroethane             | 5                       | U |
| 98-95-3  | Nitrobenzene                 | 5                       | U |
| 78-59-1  | Isophorone                   | 5                       | U |
| 88-75-5  | 2-Nitrophenol                | 5                       | U |
| 105-67-9 | 2,4-Dimethylphenol           | 5                       | U |
| 111-91-1 | bis(2-Chloroethoxy)methane   | 5                       | U |
| 120-83-2 | 2,4-Dichlorophenol           | 5                       | U |
| 91-20-3  | Naphthalene                  | 5                       | U |
| 106-47-8 | 4-Chloroaniline              | 5                       | U |
| 87-68-3  | Hexachlorobutadiene          | 5                       | U |
| 59-50-7  | 4-Chloro-3-methylphenol      | 5                       | U |
| 91-57-6  | 2-Methylnaphthalene          | 5                       | U |
| 77-47-4  | Hexachlorocyclopentadiene    | 5                       | U |
| 88-06-2  | 2,4,6-Trichlorophenol        | 5                       | U |
| 95-95-4  | 2,4,5-Trichlorophenol        | 20                      | U |
| 91-58-7  | 2-Chloronaphthalane          | 5                       | U |
| 88-74-4  | 2-Nitroaniline               | 20                      | U |
| 131-11-3 | Dimethylphthalate            | 5                       | U |
| 208-96-8 | Acenaphthylene               | 5                       | U |
| 606-20-2 | 2,6-Dinitrotoluene           | 5                       | U |
| 99-09-2  | 3-Nitroaniline               | 20                      | U |
| 83-32-9  | Acenaphthene                 | 5                       | U |

1LCC  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ECFN6

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: E00FL

Lab Sample ID: 6066.007

Date Received: 05/05/00

Lab File ID: H1047

Date Extracted: 05/09/00

Sample Volume: 1000 (mL)

Date Analyzed: 05/17/00

Concentrated Extract Volume: 1000 (uL)

Dilution Factor: 1.0

Injection Volume: 1 (uL)

| CAS NO.        | COMPOUND                        | CONCENTRATION<br>(ug/L) | Q |
|----------------|---------------------------------|-------------------------|---|
| 51-28-5-----   | 2,4-Dinitrophenol_____          | 20                      | U |
| 100-02-7-----  | 4-Nitrophenol_____              | 20                      | U |
| 132-64-9-----  | Dibenzofuran_____               | 5                       | U |
| 121-14-2-----  | 2,4-Dinitrotoluene_____         | 5                       | U |
| 84-66-2-----   | Diethylphthalate_____           | 4                       | J |
| 7005-72-3----- | 4-Chlorophenyl-phenylether_____ | 5                       | U |
| 86-73-7-----   | Fluorene_____                   | 5                       | U |
| 100-01-6-----  | 4-Nitroaniline_____             | 20                      | U |
| 534-52-1-----  | 4,6-Dinitro-2-methylphenol_____ | 20                      | U |
| 86-30-6-----   | N-Nitrosodiphenylamine (1)_____ | 5                       | U |
| 101-55-3-----  | 4-Bromophenyl-phenylether_____  | 5                       | U |
| 118-74-1-----  | Hexachlorobenzene_____          | 5                       | U |
| 87-86-5-----   | Pentachlorophenol_____          | 20                      | U |
| 85-01-8-----   | Phenanthrene_____               | 5                       | U |
| 120-12-7-----  | Anthracene_____                 | 5                       | U |
| 84-74-2-----   | Di-n-butylphthalate_____        | 5                       | U |
| 206-44-0-----  | Fluoranthene_____               | 5                       | U |
| 129-00-0-----  | Pyrene_____                     | 5                       | U |
| 85-68-7-----   | Butylbenzylphthalate_____       | 5                       | U |
| 91-94-1-----   | 3,3'-Dichlorobenzidine_____     | 5                       | U |
| 56-55-3-----   | Benzo(a)anthracene_____         | 5                       | U |
| 218-01-9-----  | Chrysene_____                   | 5                       | U |
| 117-81-7-----  | bis(2-Ethylhexyl)phthalate_____ | 2                       | J |
| 117-84-0-----  | Di-n-octylphthalate_____        | 5                       | U |
| 205-99-2-----  | Benzo(b)fluoranthene_____       | 5                       | U |
| 207-08-9-----  | Benzo(k)fluoranthene_____       | 5                       | U |
| 50-32-8-----   | Benzo(a)pyrene_____             | 5                       | U |
| 193-39-5-----  | Indeno(1,2,3-cd)Pyrene_____     | 5                       | U |
| 53-70-3-----   | Dibenz(a,h)anthracene_____      | 5                       | U |
| 191-24-2-----  | Benzo(g,h,i)perylene_____       | 5                       | U |

(1) - Cannot be separated from Diphenylamine

1LCF  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ECFN6

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004

Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: E00FL

Lab Sample ID: 6066.007      Date Received: 05/05/00

Lab File ID: H1047      Date Extracted: 05/09/00

Sample Volume: 1000 (mL)      Date Analyzed: 05/17/00

Concentrated Extract Volume: 1000 (uL)      Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

Number TICs found: 0

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC.<br>(ug/L) | Q |
|------------|---------------|----|----------------------|---|
| 1.         |               |    |                      |   |
| 2.         |               |    |                      |   |
| 3.         |               |    |                      |   |
| 4.         |               |    |                      |   |
| 5.         |               |    |                      |   |
| 6.         |               |    |                      |   |
| 7.         |               |    |                      |   |
| 8.         |               |    |                      |   |
| 9.         |               |    |                      |   |
| 10.        |               |    |                      |   |
| 11.        |               |    |                      |   |
| 12.        |               |    |                      |   |
| 13.        |               |    |                      |   |
| 14.        |               |    |                      |   |
| 15.        |               |    |                      |   |
| 16.        |               |    |                      |   |
| 17.        |               |    |                      |   |
| 18.        |               |    |                      |   |
| 19.        |               |    |                      |   |
| 20.        |               |    |                      |   |
| 21.        |               |    |                      |   |
| 22.        |               |    |                      |   |
| 23.        |               |    |                      |   |
| 24.        |               |    |                      |   |
| 25.        |               |    |                      |   |
| 26.        |               |    |                      |   |
| 27.        |               |    |                      |   |
| 28.        |               |    |                      |   |
| 29.        |               |    |                      |   |
| 30.        |               |    |                      |   |

11CB  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ECFNB

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: E00FL

Lab Sample ID: 6066.008

Date Received: 05/05/00

Lab File ID: H1048

Date Extracted: 05/09/00

Sample Volume: 1000 (mL)

Date Analyzed: 05/17/00

Concentrated Extract Volume: 1000 (uL)

Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

| CAS NO.  | COMPOUND                     | CONCENTRATION<br>(ug/L) | Q |
|----------|------------------------------|-------------------------|---|
| 108-95-2 | Phenol                       | 5                       | U |
| 111-44-4 | bis(2-Chloroethyl) ether     | 5                       | U |
| 95-57-8  | 2-Chlorophenol               | 5                       | U |
| 95-48-7  | 2-Methylphenol               | 5                       | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 5                       | U |
| 106-44-5 | 4-Methylphenol               | 5                       | U |
| 621-64-7 | N-Nitroso-di-n-propylamine   | 5                       | U |
| 67-72-1  | Hexachloroethane             | 5                       | U |
| 98-95-3  | Nitrobenzene                 | 5                       | U |
| 78-59-1  | Isophorone                   | 5                       | U |
| 88-75-5  | 2-Nitrophenol                | 5                       | U |
| 105-67-9 | 2,4-Dimethylphenol           | 5                       | U |
| 111-91-1 | bis(2-Chloroethoxy)methane   | 5                       | U |
| 120-83-2 | 2,4-Dichlorophenol           | 5                       | U |
| 91-20-3  | Naphthalene                  | 5                       | U |
| 106-47-8 | 4-Chloroaniline              | 5                       | U |
| 87-68-3  | Hexachlorobutadiene          | 5                       | U |
| 59-50-7  | 4-Chloro-3-methylphenol      | 5                       | U |
| 91-57-6  | 2-Methylnaphthalene          | 5                       | U |
| 77-47-4  | Hexachlorocyclopentadiene    | 5                       | U |
| 88-06-2  | 2,4,6-Trichlorophenol        | 5                       | U |
| 95-95-4  | 2,4,5-Trichlorophenol        | 20                      | U |
| 91-58-7  | 2-Chloronaphthalene          | 5                       | U |
| 88-74-4  | 2-Nitroaniline               | 20                      | U |
| 131-11-3 | Dimethylphthalate            | 5                       | U |
| 208-96-8 | Acenaphthylene               | 5                       | U |
| 606-20-2 | 2,6-Dinitrotoluene           | 5                       | U |
| 99-09-2  | 3-Nitroaniline               | 20                      | U |
| 83-32-9  | Acenaphthene                 | 5                       | U |

1LCC  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ECFN8

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: E00FL

Lab Sample ID: 6066.008

Date Received: 05/05/00

Lab File ID: H1048

Date Extracted: 05/09/00

Sample Volume: 1000 (mL)

Date Analyzed: 05/17/00

Concentrated Extract Volume: 1000 (uL)

Dilution Factor: 1.0

Injection Volume: 1 (uL)

| CAS NO.        | COMPOUND                   | CONCENTRATION<br>(ug/L) | Q |
|----------------|----------------------------|-------------------------|---|
| 51-28-5-----   | 2,4-Dinitrophenol          | 20                      | U |
| 100-02-7-----  | 4-Nitrophenol              | 20                      | U |
| 132-64-9-----  | Dibenzofuran               | 5                       | U |
| 121-14-2-----  | 2,4-Dinitrotoluene         | 5                       | U |
| 84-66-2-----   | Diethylphthalate           | 2                       | J |
| 7005-72-3----- | 4-Chlorophenyl-phenylether | 5                       | U |
| 86-73-7-----   | Fluorene                   | 5                       | U |
| 100-01-6-----  | 4-Nitroaniline             | 20                      | U |
| 534-52-1-----  | 4,6-Dinitro-2-methylphenol | 20                      | U |
| 86-30-6-----   | N-Nitrosodiphenylamine (1) | 5                       | U |
| 101-55-3-----  | 4-Bromophenyl-phenylether  | 5                       | U |
| 118-74-1-----  | Hexachlorobenzene          | 5                       | U |
| 87-86-5-----   | Pentachlorophenol          | 20                      | U |
| 85-01-8-----   | Phenanthrene               | 5                       | U |
| 120-12-7-----  | Anthracene                 | 5                       | U |
| 84-74-2-----   | Di-n-butylphthalate        | 5                       | U |
| 206-44-0-----  | Fluoranthene               | 5                       | U |
| 129-00-0-----  | Pyrene                     | 5                       | U |
| 85-68-7-----   | Butylbenzylphthalate       | 5                       | U |
| 91-94-1-----   | 3,3'-Dichlorobenzidine     | 5                       | U |
| 56-55-3-----   | Benzo(a)anthracene         | 5                       | U |
| 218-01-9-----  | Chrysene                   | 5                       | U |
| 117-81-7-----  | bis(2-Ethylhexyl)phthalate | 2                       | J |
| 117-84-0-----  | Di-n-octylphthalate        | 5                       | U |
| 205-99-2-----  | Benzo(b)fluoranthene       | 5                       | U |
| 207-08-9-----  | Benzo(k)fluoranthene       | 5                       | U |
| 50-32-8-----   | Benzo(a)pyrene             | 5                       | U |
| 193-39-5-----  | Indeno(1,2,3-cd)Pyrene     | 5                       | U |
| 53-70-3-----   | Dibenz(a,h)anthracene      | 5                       | U |
| 191-24-2-----  | Benzo(g,h,i)perylene       | 5                       | U |

(1) - Cannot be separated from Diphenylamine

1LCF  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

|       |
|-------|
| ECFN8 |
|-------|

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004

Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: E00FL

Lab Sample ID: 6066.008      Date Received: 05/05/00

Lab File ID: H1048      Date Extracted: 05/09/00

Sample Volume: 1000 (mL)      Date Analyzed: 05/17/00

Concentrated Extract Volume: 1000 (uL)      Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

Number TICs found:      0

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC.<br>(ug/L) | Q |
|------------|---------------|----|----------------------|---|
| 1.         |               |    |                      |   |
| 2.         |               |    |                      |   |
| 3.         |               |    |                      |   |
| 4.         |               |    |                      |   |
| 5.         |               |    |                      |   |
| 6.         |               |    |                      |   |
| 7.         |               |    |                      |   |
| 8.         |               |    |                      |   |
| 9.         |               |    |                      |   |
| 10.        |               |    |                      |   |
| 11.        |               |    |                      |   |
| 12.        |               |    |                      |   |
| 13.        |               |    |                      |   |
| 14.        |               |    |                      |   |
| 15.        |               |    |                      |   |
| 16.        |               |    |                      |   |
| 17.        |               |    |                      |   |
| 18.        |               |    |                      |   |
| 19.        |               |    |                      |   |
| 20.        |               |    |                      |   |
| 21.        |               |    |                      |   |
| 22.        |               |    |                      |   |
| 23.        |               |    |                      |   |
| 24.        |               |    |                      |   |
| 25.        |               |    |                      |   |
| 26.        |               |    |                      |   |
| 27.        |               |    |                      |   |
| 28.        |               |    |                      |   |
| 29.        |               |    |                      |   |
| 30.        |               |    |                      |   |

1LCB  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ECFP1

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004  
 Lab Code: PDP Case No.: 27986 SAS No.: \_\_\_\_\_ SDG No.: E00FL  
 Lab Sample ID: 6066.012 Date Received: 05/05/00  
 Lab File ID: H1051 Date Extracted: 05/09/00  
 Sample Volume: 1000 (mL) Date Analyzed: 05/17/00  
 Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0  
 Injection Volume: 1.0 (uL)

| CAS NO.  | COMPOUND                     | CONCENTRATION (ug/L) | Q |
|----------|------------------------------|----------------------|---|
| 108-95-2 | Phenol                       | 5                    | U |
| 111-44-4 | bis(2-Chloroethyl) ether     | 5                    | U |
| 95-57-8  | 2-Chlorophenol               | 5                    | U |
| 95-48-7  | 2-Methylphenol               | 5                    | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 5                    | U |
| 106-44-5 | 4-Methylphenol               | 5                    | U |
| 621-64-7 | N-Nitroso-di-n-propylamine   | 5                    | U |
| 67-72-1  | Hexachloroethane             | 5                    | U |
| 98-95-3  | Nitrobenzene                 | 5                    | U |
| 78-59-1  | Isophorone                   | 5                    | U |
| 88-75-5  | 2-Nitrophenol                | 5                    | U |
| 105-67-9 | 2,4-Dimethylphenol           | 5                    | U |
| 111-91-1 | bis(2-Chloroethoxy)methane   | 5                    | U |
| 120-83-2 | 2,4-Dichlorophenol           | 5                    | U |
| 91-20-3  | Naphthalene                  | 5                    | U |
| 106-47-8 | 4-Chloroaniline              | 5                    | U |
| 87-68-3  | Hexachlorobutadiene          | 5                    | U |
| 59-50-7  | 4-Chloro-3-methylphenol      | 5                    | U |
| 91-57-6  | 2-Methylnaphthalene          | 5                    | U |
| 77-47-4  | Hexachlorocyclopentadiene    | 5                    | U |
| 88-06-2  | 2,4,6-Trichlorophenol        | 5                    | U |
| 95-95-4  | 2,4,5-Trichlorophenol        | 20                   | U |
| 91-58-7  | 2-Chloronaphthalane          | 5                    | U |
| 88-74-4  | 2-Nitroaniline               | 20                   | U |
| 131-11-3 | Dimethylphthalate            | 5                    | U |
| 208-96-8 | Acenaphthylene               | 5                    | U |
| 606-20-2 | 2,6-Dinitrotoluene           | 5                    | U |
| 99-09-2  | 3-Nitroaniline               | 20                   | U |
| 83-32-9  | Acenaphthene                 | 5                    | U |

1LCC  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ECFP1

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: E00FL

Lab Sample ID: 6066.012

Date Received: 05/05/00

Lab File ID: H1051

Date Extracted: 05/09/00

Sample Volume: 1000 (mL)

Date Analyzed: 05/17/00

Concentrated Extract Volume: 1000 (uL)

Dilution Factor: 1.0

Injection Volume: 1 (uL)

| CAS NO.   | COMPOUND                   | CONCENTRATION<br>(ug/L) | Q |
|-----------|----------------------------|-------------------------|---|
| 51-28-5   | 2,4-Dinitrophenol          | 20                      | U |
| 100-02-7  | 4-Nitrophenol              | 20                      | U |
| 132-64-9  | Dibenzofuran               | 5                       | U |
| 121-14-2  | 2,4-Dinitrotoluene         | 5                       | U |
| 84-66-2   | Diethylphthalate           | 1                       | J |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 5                       | U |
| 86-73-7   | Fluorene                   | 5                       | U |
| 100-01-6  | 4-Nitroaniline             | 20                      | U |
| 534-52-1  | 4,6-Dinitro-2-methylphenol | 20                      | U |
| 86-30-6   | N-Nitrosodiphenylamine (1) | 5                       | U |
| 101-55-3  | 4-Bromophenyl-phenylether  | 5                       | U |
| 118-74-1  | Hexachlorobenzene          | 5                       | U |
| 87-86-5   | Pentachlorophenol          | 20                      | U |
| 85-01-8   | Phenanthrene               | 5                       | U |
| 120-12-7  | Anthracene                 | 5                       | U |
| 84-74-2   | Di-n-butylphthalate        | 5                       | U |
| 206-44-0  | Fluoranthene               | 5                       | U |
| 129-00-0  | Pyrene                     | 5                       | U |
| 85-68-7   | Butylbenzylphthalate       | 5                       | U |
| 91-94-1   | 3,3'-Dichlorobenzidine     | 5                       | U |
| 56-55-3   | Benzo(a)anthracene         | 5                       | U |
| 218-01-9  | Chrysene                   | 5                       | U |
| 117-81-7  | bis(2-Ethylhexyl)phthalate | 2                       | J |
| 117-84-0  | Di-n-octylphthalate        | 5                       | U |
| 205-99-2  | Benzo(b)fluoranthene       | 5                       | U |
| 207-08-9  | Benzo(k)fluoranthene       | 5                       | U |
| 50-32-8   | Benzo(a)pyrene             | 5                       | U |
| 193-39-5  | Indeno(1,2,3-cd)Pyrene     | 5                       | U |
| 53-70-3   | Dibenz(a,h)anthracene      | 5                       | U |
| 191-24-2  | Benzo(g,h,i)perylene       | 5                       | U |

(1) - Cannot be separated from Diphenylamine

1LCF  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

ECFP1

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004

Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: E00FL

Lab Sample ID: 6066.012      Date Received: 05/05/00

Lab File ID: H1051      Date Extracted: 05/09/00

Sample Volume: 1000 (mL)      Date Analyzed: 05/17/00

Concentrated Extract Volume: 1000 (uL)      Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

Number TICs found: 0

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC.<br>(ug/L) | Q |
|------------|---------------|----|----------------------|---|
| 1.         |               |    |                      |   |
| 2.         |               |    |                      |   |
| 3.         |               |    |                      |   |
| 4.         |               |    |                      |   |
| 5.         |               |    |                      |   |
| 6.         |               |    |                      |   |
| 7.         |               |    |                      |   |
| 8.         |               |    |                      |   |
| 9.         |               |    |                      |   |
| 10.        |               |    |                      |   |
| 11.        |               |    |                      |   |
| 12.        |               |    |                      |   |
| 13.        |               |    |                      |   |
| 14.        |               |    |                      |   |
| 15.        |               |    |                      |   |
| 16.        |               |    |                      |   |
| 17.        |               |    |                      |   |
| 18.        |               |    |                      |   |
| 19.        |               |    |                      |   |
| 20.        |               |    |                      |   |
| 21.        |               |    |                      |   |
| 22.        |               |    |                      |   |
| 23.        |               |    |                      |   |
| 24.        |               |    |                      |   |
| 25.        |               |    |                      |   |
| 26.        |               |    |                      |   |
| 27.        |               |    |                      |   |
| 28.        |               |    |                      |   |
| 29.        |               |    |                      |   |
| 30.        |               |    |                      |   |

1LCB  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SLCS73

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: E00FL

Lab Sample ID: SVOL605

Date Received: \_\_\_\_\_

Lab File ID: H1031

Date Extracted: 05/05/00

Sample Volume: 1000 (mL)

Date Analyzed: 05/16/00

Concentrated Extract Volume: 1000 (uL)

Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

| CAS NO.  | COMPOUND                     | CONCENTRATION<br>(ug/L) | Q |
|----------|------------------------------|-------------------------|---|
| 108-95-2 | Phenol                       | 30                      |   |
| 111-44-4 | bis(2-Chloroethyl) ether     | 16                      |   |
| 95-57-8  | 2-Chlorophenol               | 30                      |   |
| 95-48-7  | 2-Methylphenol               | 5                       | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 5                       | U |
| 106-44-5 | 4-Methylphenol               | 5                       | U |
| 621-64-7 | N-Nitroso-di-n-propylamine   | 16                      |   |
| 67-72-1  | Hexachloroethane             | 10                      |   |
| 98-95-3  | Nitrobenzene                 | 5                       | U |
| 78-59-1  | Isophorone                   | 12                      |   |
| 88-75-5  | 2-Nitrophenol                | 5                       | U |
| 105-67-9 | 2,4-Dimethylphenol           | 5                       | U |
| 111-91-1 | bis(2-Chloroethoxy)methane   | 5                       | U |
| 120-83-2 | 2,4-Dichlorophenol           | 5                       | U |
| 91-20-3  | Naphthalene                  | 15                      |   |
| 106-47-8 | 4-Chloroaniline              | 22                      |   |
| 87-68-3  | Hexachlorobutadiene          | 5                       | U |
| 59-50-7  | 4-Chloro-3-methylphenol      | 5                       | U |
| 91-57-6  | 2-Methylnaphthalene          | 5                       | U |
| 77-47-4  | Hexachlorocyclopentadiene    | 5                       | U |
| 88-06-2  | 2,4,6-Trichlorophenol        | 32                      |   |
| 95-95-4  | 2,4,5-Trichlorophenol        | 20                      | U |
| 91-58-7  | 2-Chloronaphthalene          | 5                       | U |
| 88-74-4  | 2-Nitroaniline               | 20                      | U |
| 131-11-3 | Dimethylphthalate            | 5                       | U |
| 208-96-8 | Acenaphthylene               | 5                       | U |
| 606-20-2 | 2,6-Dinitrotoluene           | 5                       | U |
| 99-09-2  | 3-Nitroaniline               | 20                      | U |
| 83-32-9  | Acenaphthene                 | 5                       | U |

1LCC  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SLCS73

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004  
 Lab Code: PDP Case No.: 27986 SAS No.: \_\_\_\_\_ SDG No.: E00FL  
 Lab Sample ID: SVOL605 Date Received: \_\_\_\_\_  
 Lab File ID: H1031 Date Extracted: 05/05/00  
 Sample Volume: 1000 (mL) Date Analyzed: 05/16/00  
 Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0  
 Injection Volume: 1 (uL)

| CAS NO.   | COMPOUND                   | CONCENTRATION<br>(ug/L) | Q |
|-----------|----------------------------|-------------------------|---|
| 51-28-5   | 2,4-Dinitrophenol          | 20                      | U |
| 100-02-7  | 4-Nitrophenol              | 20                      | U |
| 132-64-9  | Dibenzofuran               | 5                       | U |
| 121-14-2  | 2,4-Dinitrotoluene         | 11                      |   |
| 84-66-2   | Diethylphthalate           | 14                      |   |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 5                       | U |
| 86-73-7   | Fluorene                   | 5                       | U |
| 100-01-6  | 4-Nitroaniline             | 20                      | U |
| 534-52-1  | 4,6-Dinitro-2-methylphenol | 20                      | U |
| 86-30-6   | N-Nitrosodiphenylamine (1) | 10                      |   |
| 101-55-3  | 4-Bromophenyl-phenylether  | 5                       | U |
| 118-74-1  | Hexachlorobenzene          | 12                      |   |
| 87-86-5   | Pentachlorophenol          | 20                      | U |
| 85-01-8   | Phenanthrene               | 5                       | U |
| 120-12-7  | Anthracene                 | 5                       | U |
| 84-74-2   | Di-n-butylphthalate        | 5                       | U |
| 206-44-0  | Fluoranthene               | 5                       | U |
| 129-00-0  | Pyrene                     | 5                       | U |
| 85-68-7   | Butylbenzylphthalate       | 5                       | U |
| 91-94-1   | 3,3'-Dichlorobenzidine     | 5                       | U |
| 56-55-3   | Benzo(a)anthracene         | 5                       | U |
| 218-01-9  | Chrysene                   | 5                       | U |
| 117-81-7  | bis(2-Ethylhexyl)phthalate | 5                       | U |
| 117-84-0  | Di-n-octylphthalate        | 5                       | U |
| 205-99-2  | Benzo(b)fluoranthene       | 5                       | U |
| 207-08-9  | Benzo(k)fluoranthene       | 5                       | U |
| 50-32-8   | Benzo(a)pyrene             | 16                      |   |
| 193-39-5  | Indeno(1,2,3-cd)Pyrene     | 5                       | U |
| 53-70-3   | Dibenz(a,h)anthracene      | 5                       | U |
| 191-24-2  | Benzo(g,h,i)perylene       | 5                       | U |

(1) - Cannot be separated from Diphenylamine

1LCB  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SLCS76

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004  
 Lab Code: PDP Case No.: 27986 SAS No.: \_\_\_\_\_ SDG No.: E00FL  
 Lab Sample ID: SVOL608 Date Received: \_\_\_\_\_  
 Lab File ID: H1039 Date Extracted: 05/09/00  
 Sample Volume: 1000 (mL) Date Analyzed: 05/16/00  
 Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0  
 Injection Volume: 1.0 (uL)

| CAS NO.  | COMPOUND                     | CONCENTRATION<br>(ug/L) | Q |
|----------|------------------------------|-------------------------|---|
| 108-95-2 | Phenol                       | 30                      |   |
| 111-44-4 | bis(2-Chloroethyl) ether     | 17                      |   |
| 95-57-8  | 2-Chlorophenol               | 30                      |   |
| 95-48-7  | 2-Methylphenol               | 5                       | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 5                       | U |
| 106-44-5 | 4-Methylphenol               | 5                       | U |
| 621-64-7 | N-Nitroso-di-n-propylamine   | 19                      |   |
| 67-72-1  | Hexachloroethane             | 10                      |   |
| 98-95-3  | Nitrobenzene                 | 5                       | U |
| 78-59-1  | Isophorone                   | 11                      |   |
| 88-75-5  | 2-Nitrophenol                | 5                       | U |
| 105-67-9 | 2,4-Dimethylphenol           | 5                       | U |
| 111-91-1 | bis(2-Chloroethoxy)methane   | 5                       | U |
| 120-83-2 | 2,4-Dichlorophenol           | 5                       | U |
| 91-20-3  | Naphthalene                  | 15                      |   |
| 106-47-8 | 4-Chloroaniline              | 27                      |   |
| 87-68-3  | Hexachlorobutadiene          | 5                       | U |
| 59-50-7  | 4-Chloro-3-methylphenol      | 5                       | U |
| 91-57-6  | 2-Methylnaphthalene          | 5                       | U |
| 77-47-4  | Hexachlorocyclopentadiene    | 5                       | U |
| 88-06-2  | 2,4,6-Trichlorophenol        | 30                      |   |
| 95-95-4  | 2,4,5-Trichlorophenol        | 20                      | U |
| 91-58-7  | 2-Chloronaphthalane          | 5                       | U |
| 88-74-4  | 2-Nitroaniline               | 20                      | U |
| 131-11-3 | Dimethylphthalate            | 5                       | U |
| 208-96-8 | Acenaphthylene               | 5                       | U |
| 606-20-2 | 2,6-Dinitrotoluene           | 5                       | U |
| 99-09-2  | 3-Nitroaniline               | 20                      | U |
| 83-32-9  | Acenaphthene                 | 5                       | U |







EPA CRL - REGION V  
ICP FINAL RESULTS REPORT

REPORT PRODUCED ON: 22-Nov-00

SAMPLE ORGANIZATION: SAMPLE BATCH ID: 20010009  
LABORATORY: REGION 5 CRL SAMPLE FACILITY: Himco Dump  
SAMPLE: 2001SK01R01 ANALYZED: 22-Nov-00  
STATION: Method blank

| COMPOUND  | AMOUNT  | (Units) |
|-----------|---------|---------|
| Aluminum  | 40 U    | (ug/L)  |
| Barium    | 2 U     | (ug/L)  |
| Beryllium | 0.3 U   | (ug/L)  |
| Calcium   | 53.1    | (ug/L)  |
| Chromium  | 3 U     | (ug/L)  |
| Cobalt    | 1 U     | (ug/L)  |
| Copper    | 1.1 M   | (ug/L)  |
| Iron      | 4.3 M   | (ug/L)  |
| Magnesium | 15.1    | (ug/L)  |
| Manganese | 2 U     | (ug/L)  |
| Nickel    | 1.2 M E | (ug/L)  |
| Potassium | 219 M   | (ug/L)  |
| Silver    | 1 U     | (ug/L)  |
| Sodium    | 212 B J | (ug/L)  |
| Vanadium  | 4.3 M B | (ug/L)  |
| Zinc      | 25 U    | (ug/L)  |

ANALYZED BY:



11-28-00

EPA CRL - REGION V  
ICP FINAL RESULTS REPORT

REPORT PRODUCED ON: 22-Nov-00

SAMPLE ORGANIZATION: SAMPLE BATCH ID: 20010009  
LABORATORY: REGION 5 CRL SAMPLE FACILITY: Himco Dump  
SAMPLE: 2001SK01S01 ANALYZED: 22-Nov-00  
STATION: 1st res well + 2nd + 3rd

| COMPOUND  | AMOUNT  | (Units) |
|-----------|---------|---------|
| Aluminum  | 35.9 M  | (ug/L)  |
| Barium    | 48.1    | (ug/L)  |
| Beryllium | 0.2 M B | (ug/L)  |
| Calcium   | 102000  | (ug/L)  |
| Chromium  | 3 U     | (ug/L)  |
| Cobalt    | 1 U     | (ug/L)  |
| Copper    | 2.3     | (ug/L)  |
| Iron      | 60.2    | (ug/L)  |
| Magnesium | 24800   | (ug/L)  |
| Manganese | 103     | (ug/L)  |
| Nickel    | 2.9 B J | (ug/L)  |
| Potassium | 2790    | (ug/L)  |
| Silver    | 1 U     | (ug/L)  |
| Sodium    | 53100   | (ug/L)  |
| Vanadium  | 5.5 M B | (ug/L)  |
| Zinc      | 21.7 M  | (ug/L)  |

ANALYZED BY:



11-28-00

EPA CRL - REGION V  
ICP FINAL RESULTS REPORT

REPORT PRODUCED ON: 22-Nov-00

SAMPLE ORGANIZATION: SAMPLE BATCH ID: 20010009  
LABORATORY: REGION 5 CRL SAMPLE FACILITY: Himco Dump  
SAMPLE: 2001SK01S02 ANALYZED: 22-Nov-00  
STATION: 2nd res well

| COMPOUND  | AMOUNT  | (Units) |
|-----------|---------|---------|
| Aluminum  | 58.2    | (ug/L)  |
| Barium    | 46.9    | (ug/L)  |
| Beryllium | 0.3 M B | (ug/L)  |
| Calcium   | 129000  | (ug/L)  |
| Chromium  | 3 U     | (ug/L)  |
| Cobalt    | 0.8 M   | (ug/L)  |
| Copper    | 1 M     | (ug/L)  |
| Iron      | 1840    | (ug/L)  |
| Magnesium | 14200   | (ug/L)  |
| Manganese | 1250    | (ug/L)  |
| Nickel    | 3.4 B J | (ug/L)  |
| Potassium | 4400    | (ug/L)  |
| Silver    | 1 U     | (ug/L)  |
| Sodium    | 42300   | (ug/L)  |
| Vanadium  | 4.9 M B | (ug/L)  |
| Zinc      | 14.3 M  | (ug/L)  |

ANALYZED BY:



11-28-00

EPA CRL - REGION V  
ICP FINAL RESULTS REPORT

REPORT PRODUCED ON: 22-Nov-00

SAMPLE ORGANIZATION: SAMPLE BATCH ID: 20010009  
LABORATORY: REGION 5 CRL SAMPLE FACILITY: Himco Dump  
SAMPLE: 2001SK01D02 ANALYZED: 22-Nov-00  
STATION: duplicate of S02 *Walters*

| COMPOUND  | AMOUNT  | (Units) |
|-----------|---------|---------|
| Aluminum  | 53.7    | (ug/L)  |
| Barium    | 47.4    | (ug/L)  |
| Beryllium | 0.1 M B | (ug/L)  |
| Calcium   | 129000  | (ug/L)  |
| Chromium  | 3 U     | (ug/L)  |
| Cobalt    | 0.9 M   | (ug/L)  |
| Copper    | 1.4 M   | (ug/L)  |
| Iron      | 1720    | (ug/L)  |
| Magnesium | 14200   | (ug/L)  |
| Manganese | 1250    | (ug/L)  |
| Nickel    | 3.6 B J | (ug/L)  |
| Potassium | 4670    | (ug/L)  |
| Silver    | 1 U     | (ug/L)  |
| Sodium    | 42700   | (ug/L)  |
| Vanadium  | 3.4 M B | (ug/L)  |
| Zinc      | 20.3 M  | (ug/L)  |

ANALYZED BY:

*RT*

11-28-00

EPA CRL - REGION V  
ICP FINAL RESULTS REPORT

REPORT PRODUCED ON: 22-Nov-00

SAMPLE ORGANIZATION: SAMPLE BATCH ID: 20010009  
LABORATORY: REGION 5 CRL SAMPLE FACILITY: Himco Dump  
SAMPLE: 2001SK01S03 ANALYZED: 22-Nov-00  
STATION: MW 116 A

| COMPOUND  | AMOUNT |     | (Units) |
|-----------|--------|-----|---------|
| Aluminum  | 335    |     | (ug/L)  |
| Barium    | 133    |     | (ug/L)  |
| Beryllium | 1.0    | B J | (ug/L)  |
| Calcium   | 745000 |     | (ug/L)  |
| Chromium  | 3      | U   | (ug/L)  |
| Cobalt    | 1.1    |     | (ug/L)  |
| Copper    | 2.1    |     | (ug/L)  |
| Iron      | 8200   |     | (ug/L)  |
| Magnesium | 60000  |     | (ug/L)  |
| Manganese | 1240   |     | (ug/L)  |
| Nickel    | 4.2    | B J | (ug/L)  |
| Potassium | 30800  |     | (ug/L)  |
| Silver    | 1      | U   | (ug/L)  |
| Sodium    | 214000 |     | (ug/L)  |
| Vanadium  | 9.1    | B J | (ug/L)  |
| Zinc      | 85.5   |     | (ug/L)  |

ANALYZED BY:



11-28-00

EPA CRL - REGION V  
ICP FINAL RESULTS REPORT

REPORT PRODUCED ON: 22-Nov-00

SAMPLE ORGANIZATION: SAMPLE BATCH ID: 20010009  
LABORATORY: REGION 5 CRL SAMPLE FACILITY: Himco Dump  
SAMPLE: 2001SK01S04 ANALYZED: 22-Nov-00  
STATION: 101 A

| COMPOUND  | AMOUNT | (Units)    |
|-----------|--------|------------|
| Aluminum  | 112    | (ug/L)     |
| Barium    | 79.3   | (ug/L)     |
| Beryllium | 0.6    | B J (ug/L) |
| Calcium   | 227000 | (ug/L)     |
| Chromium  | 3      | U (ug/L)   |
| Cobalt    | 1      | U (ug/L)   |
| Copper    | 2      | U (ug/L)   |
| Iron      | 9490   | (ug/L)     |
| Magnesium | 20200  | (ug/L)     |
| Manganese | 929    | (ug/L)     |
| Nickel    | 2.3    | B J (ug/L) |
| Potassium | 10100  | (ug/L)     |
| Silver    | 1      | U (ug/L)   |
| Sodium    | 36700  | (ug/L)     |
| Vanadium  | 5.0    | M B (ug/L) |
| Zinc      | 14.9   | M (ug/L)   |

ANALYZED BY:

 11-29-00

Lockheed Martin Services Group  
Environmental Services & Technologies Region 5  
536 South Clark Street #1050 Chicago, IL 60605  
Telephone 312-353-8302 Facsimile 312-353-8307

LOCKHEED MARTIN



Date: November 28, 2000

To: John V. Morris, EPA WAM

From: Richard Dilg, ESAT Chemist *RD 11-28-00*

Thru: Ziyad Rajabi, ESAT Team Manager *ZR*

Copies: John Ganz, ESAT Inorganic Group Leader  
Jay Thakkar, ESAT Contract RPO

Ref: TDF# 5104-308  
WA# 05-00-4-04  
Contract # 68D60002

SUBJECT: Data Set SF20010009: ICP Analyses for Himco Dump samples using CRL Method 200

Attached is the deliverable for Data Set SF20010009 for ICP analysis of 6 water samples.

If you have any question please feel free to contact ESAT.

Method Number: 200.7 Site Name: Himco Dump  
 Date Generated: November 28, 2000 Work Unit Number: 05-00-4-04  
 Author: R.Dilg, Lockheed-ESAT TDF Number: 5104-308  
 Charge Number: ESE-51-058  
 Batch ID No.: 20010009  
 Parameter: ICP

ICP NARRATIVE

This narrative covers the analysis of 6 water samples from the named site sampled for ICP metals analysis.

| Sample Nos. | Sample Station ID's | Sample collected | Analysis dates |
|-------------|---------------------|------------------|----------------|
| 2001SK01S01 | S01 - Res Well 1    | 11-15-2000       | 11-22-2000     |
| 2001SK01S02 | S02 - Res Well 2    | 11-15-2000       | 11-22-2000     |
| 2001SK01D01 | D02 - Dup of S02    | 11-15-2000       | 11-22-2000     |
| 2001SK01S03 | MW 116A             | 11-15-2000       | 11-22-2000     |
| 2001SK01S04 | S04/101 A           | 11-15-2000       | 11-22-2000     |
| 2001SK01R01 | Method blank R01    | 11-15-2000       | 11-22-2000     |

Routine CRL hot block (water) digestion procedures were used to prepare the water samples for ICP analysis. The digested samples were analyzed using the Optima 3300 DV ICP unit using analysis run method water\_080300\_ESAT. Optima 3300 DV ICP results were stored to file 20010009 112200.

ICP RUN RESULTS

Analyte mdl's determined and rl values calculated earlier in the year for ESAT analysis work for the Optima 3300 DV were used. The calculated rl values were used in reporting sample analysis results for this data case.

11-28-71

ICP RUN RESULTS - continued

An ambiguously stated flag in SOP HK005 is the "B" flag. Although a "more than 10 times" rule was mentioned for blanks for considering data as useable, it was not clearly stated whether or not the "B" flag should be used. As a matter of fact, to this analyst, from reading the wording used in the SOP the flow or intent seems to imply (but is not specifically stated to do so) to always use the "B" flag regardless of the sample level if a control audit blank is above an MDL level ! This analyst used the "B" flag for those analyte cases where the MDL value was exceeded but the 10 times value was not exceeded.

Also, to better help understand the use of the "B" flag, let it be pointed out to the data user that the "B" flag is by definition a warning flag only. For estimated data, an additional flag (either an "M" or a "J" flag") is used to denote that the flagged result is in fact estimated.

Analysis RUN 1241 - Optima 3300 DV

29 analyte lines out of a possible 78 lines available using the Optim. 3300 DV method were chosen by a plan agreed upon by Dr. J. V. Morris. These are to be used for routine reporting of analyte values that appear in the QA summary reports.

The following analytes will either not be addressed or only minimally mentioned in this case narrative:

- Sn, Tl, As, Se, Sb, Mo, Pb, Cd, Ti, Y, Sr, Li

The following lists the case pertinent out-of-control QC audit check results:

RUN 1241:

|         |               |       |                      |      |
|---------|---------------|-------|----------------------|------|
| Blanks: | Instr blk 1:  | Cr267 | 0.90                 | µg/L |
|         |               | Ni231 | 0.69                 | "    |
|         |               | V 310 | <del>0.81</del> 0.81 | "    |
|         | Digest blk 1: | Ag328 | - 0.44               | "    |
|         |               | Al396 | -17.36               | "    |
|         |               | As193 | - 3.71               | "    |
|         |               | Na589 | 67.31                | "    |
|         |               | V 310 | 3.65                 | "    |



✓  
11-3-11

Analysis RUN 1241 - Optima 3300 DV (continued)

|               |       |        |      |
|---------------|-------|--------|------|
| Digest blk 2: | Ag328 | - 0.49 | µg/L |
|               | Al396 | -22.57 | "    |
|               | Be313 | 0.10   | "    |
|               | Na589 | 84.85  | "    |
| Instr blk 2:  | Ag328 | - 0.55 | "    |
|               | Be313 | 0.20   | "    |
|               | Cr267 | 0.98   | "    |
|               | Na589 | 154.4  | "    |
|               | Ni231 | 0.58   | "    |

Mid range: LCM1's: LCM1-1: Ag328 \*

QC's LCM1-2: Ag328 \*

Na589 19.9 % deviation

\* alternate QC audit check used to monitor this analyte

High AQC's: 1<sup>st</sup> Hi AQC: Zn213 - 19.48 % deviation

2nd Hi AQC: Zn213 - 18.89 "

RL check Soln: RL 1:  
(See paragraphs below regarding RL's)

RL 2:

For the rl check audit, the reporting limit (rl) check solution was used for the analysis runs. Since many of the ESAT calculated rl values were close to the CRL rl values, the CRL RL check solution was used as the check solution for the Optima 3300 DV analysis run.

Presently no "control" actions are associated with the observed rl analyte values actually determined during the analysis runs. RL check solution values currently are being analyzed for purposes of generating a benchmark set of values which can be used to monitor the appropriateness of any given RL level of analyte concentration.

11-21-01

Analysis RUN 1241 - Optima 3300 DV (continued)

As, Sb; Cd, Pb, Se, and Tl sample results were not reported by ICP; see GFAA results for these analytes.

For Al, the sample result for 2001SK01S01 was flagged "M" since it had a result between the MDL and the RL value and it is estimated because of this.

For Be, sample results for 2001SK01S01, S02, and D02 were flagged "M" since they had a result between the MDL and the RL value and they are estimated because of this. Sample results for 2001SK01S01, S02, D02, S03, and S04 were flagged "B" indicating they may have been affected by possible contamination indicated by blank analysis data. The sample results for 2001SK01S03 and S04 were also flagged "J" indicating possible high bias due to the blank contamination just noted and are estimated.

For Co, sample results for 2001SK01S02 and D02 were flagged "M" since they had a result between the MDL and the RL value and they are estimated because of this.

For Cu, sample results for 2001SK01R01, S02, and D02 were flagged "M" since they had a result between the MDL and the RL value and they are estimated because of this.

For Fe, the sample result for 2001SK01R01 was flagged "M" since it had a result between the MDL and the RL value and it is estimated because of this.

For Ni, the sample result for 2001SK01R01 was flagged "M" since it had a result between the MDL and the RL value and it is estimated because of this. Sample results for 2001SK01R01, S01, S02, D02, S03, and S04 were flagged "B" indicating they may have been affected by possible contamination indicated by blank analysis data. Sample results for 2001SK01S01, S02, D02, S03, and S04 were also flagged "J" indicating possible high bias due to the blank contamination just noted and are estimated.

For K, the sample result for 2001SK01R01 was flagged "M" since it had a result between the MDL and the RL value and it is estimated because of this.

11-28-11

Analysis RUN 1241 - Optima 3300 DV (continued)

For Na, the sample result for 2001SK01R01 was flagged "B" indicating it may have been affected by possible contamination indicated by blank analysis data. This sample result was also flagged "J" indicating possible high bias due to the blank contamination just noted and is estimated. The final mid range QC check standard value exceeded upper limit criteria but the high QC check values were within limits. Only the sample result for 2001SK01R01 would be significantly affected because of possible high bias; the remaining Na sample results are usable.

For V, sample results for 2001SK01R01, S01, S02, D02, and S04 were flagged "M" since they had a result between the MDL and the RL value and they are estimated because of this. Sample results for 2001SK01R01, S01, S02, D02, S03, and S04 were flagged "B" indicating they may have been affected by possible contamination indicated by blank analysis data. The sample result for 2001SK01S03 was also flagged "J" indicating possible high bias due to the blank contamination just noted and is estimated.

For Zn, sample results for 2001SK01S01, S02, D02, and S04 were flagged "M" since they had a result between the MDL and the RL value and they are estimated because of this.

Other Comments

Low levels of Ca, Cu, Fe, Mg, Ni, K, Na, and V were found in the field blank (sample 2001SK01R01). Analysis of the undigested field blank sample indicated the presence of Ca, Cu, Mg, Ni, Na, and V. For Fe and K the levels were low enough as to not significantly affect the remaining sample results for these analytes.

Samples 2001SK01S01 and D01 were designated as field duplicates; the analyte values correlate well.

Per discussion with Dr. J. V. Morris, no dilutions were made because of current ambiguities in the CRL Metals 003 SOP regarding upper limits of linearity for analytes such as Ca, Mg, and Na sample results.

R5CRL Files

The following pathways were used for storing analysis information to the R5CRL file server for the this data set:

Optima 3300 DV results:

(Vol 3 on 'R5crl') [H:] \metals\Rdilg\20010009\Icp\Optima 3300DV\Methods\_ESAT  
(Vol 3 on 'R5crl') [H:] \metals\Rdilg\20010009\Icp\Optima 3300DV\narrative  
(Vol 3 on 'R5crl') [H:] \metals\Rdilg\20010009\Icp\Optima 3300DV\Results\_ESAT  
(Vol 3 on 'R5crl') [H:] \metals\Rdilg\20010009\Icp\Optima 3300DV\SIFs\_ESAT  
(Vol 3 on 'R5crl') [H:] \metals\Rdilg\20010009\Icp\Optima 3300DV\SS processed data

## CRL Data Review Qualification Codes

| QUALIFIER | DESCRIPTION  |
|-----------|--|
| B         | This flag is used when the analyte is found in the associated <u>B</u> lank as well as the sample. It indicates possible blank contamination and warns the user to take appropriate action while assessing the data. See the case narrative for a discussion of common lab contaminants and/or the relative concentration of contamination in the samples and blanks for relevance.  |
| D         | This flag is used when the analyte concentration results from a required <u>D</u> ilution of the sample, extract or digestate.   |
| E         | This flag is used to identify analyte concentrations <u>E</u> xceeding the upper calibration range of the analytical instrument after dilution of the sample, extract or digestate. The reported value is considered to be estimated   |
| J         | This flag is used when the analyte is <u>e</u> stimated due to quality control limit(s) being exceeded. This flag accompanies all GC/MS tentatively identified compounds (TICs). This flag also applies to a suspected, unidentified interference. This flag is placed on affected detected results as well as non-detected (i.e., "U" flagged) results. ( <u>J</u> is the flag used in the Superfund CLP SOW and Data Review Functional Guidelines and is used by CRL for consistency.) |
| M         | This flag is used when the analyte is confirmed to be qualitatively present in the sample, extract or digestate, at or above the CRL <u>M</u> ethod Detection Limit (MDL) but below the CRL reporting limit (RL). This flag applies to all values in this concentration range and indicates the quantitated value is <u>e</u> stimated due to its presence in this concentration range.  |
| N         | This flag applies to GC/MS <u>T</u> entatively Identified Compounds (TICs) that have a mass spectral library match.  |
| Q         | This flag applies to analyte data that are severely estimated due to quality control and/or <u>Q</u> uantitation problems, but are confirmed to be qualitatively present in the sample. <u>No value is reported with this qualification flag.</u>  |
| R         | This flag applies to analyte data that are <u>R</u> ejected and unusable due to severe quality control, quantitation and/or qualitative identification problems. No other qualification flags are reported for this analyte. <u>No value is reported with this qualification flag.</u>   |
| U         | This flag is used when the analyte was analyzed but <u>U</u> ndetected in the sample. The CRL RL for the analyte accompanies this flag. As with sample results that are positive, the value is corrected for dry weight, dilution and/or sample weight or volume.  |



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 5 CENTRAL REGIONAL LABORATORY

536 SOUTH CLARK STREET

CHICAGO, ILLINOIS 60605

Date: DEC 15 2000

Subject: Review of Region 5 Data for Himco Dump Code:054J

From: ESAT, Chemist  
Region 5 Central Regional Laboratory

To: *Gwen Massenburg*  
*SR-6J*

Attached are the results for Site: Himco Dump Code:054J

CRL Data Set Number: 20010009

for analyses of: Antimony, Arsenic, Cadmium, Lead, Selenium and Thallium

Results are reported for sample numbers: 2001SK01S01, 2001SK01S02, 2001SK01D02,  
2001SK01S03, 2001SK01S04 and 2001SK01R01

Results Status:

- Acceptable for Use
- Data Qualified, but Acceptable for use
- Data Unacceptable for Use

*Sylvia Griffin* Dec 10 2000  
CRL Data Management Coordinator and Date Received

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Date Transmitted: DEC 10 2000

Please have the US EPA project leader fill out the customer survey form on the Region 5 Intranet:  
<http://www.r5intra.epa.gov/crl/qa.html> (← by clicking on this link, or call George Schupp, CRL  
Sample Coordinator, at 3-1226).

Please sign and date this form below and return it with any comments to:

Sylvia Griffin  
Data Management Coordinator  
Region 5 Central Regional Laboratory  
ML - 10C

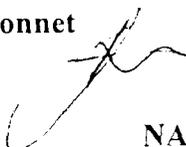
---

Received by and Date

Comments:

Method: GFAA for Water  
Site: Himco Dump  
Date: December 11, 2000  
Prepared by: Stephen Connet

TDF: 5104-308  
PWO: ESE51058  
WAD: 05-00-4-04  
Data Set: 20010009



NARRATIVE

Six (6) water samples from the Himco Dump site [2001SK01S01(RES WELL 1), S02 (RES WELL 2), D02 (DUPLICATE OF S02), S03 (MW116A), S04 (101A), R01 (Method Blank)] were collected on November 15-16, 2000 and were received properly preserved by CRL on November 17, 2000. The samples were submitted to ESAT for analysis of antimony, arsenic, cadmium, lead, selenium, and thallium by GFAA.

The samples were digested following standard CRL 200.2 hot block water digestion protocols on November 20, 2000 (digestion batch 1241). Analyses were performed using 200.9 methods on the SIMAA 6000 using multi-element programs. Samples from SF20010010 (digestion batch 1245) were analyzed in the same analytical runs. Background interferences present in the thallium analyses required dilutions to obtain acceptable results.

All QC were within limits; all sample results are acceptable.

Non-detect results are reported to the reporting limit (RL). Results between the method detection limit (MDL) and the RL are reported as the instrument value with an "M" flag. Where appropriate, reported values are dilution corrected and results are flagged "D".

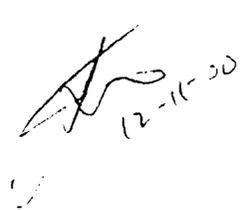
Analytical results were stored in the following database files:

H:\r5crl\vol3\metals\sconnet\20010009\6000-SbTl\120400 and \120500 for antimony and thallium,  
H:\r5crl\vol3\metals\sconnet\20010009\6000-AsSe\120600A and \120700 for arsenic and selenium,  
H:\r5crl\vol3\metals\sconnet\20010009\6000-CdPb\120700A and \121100 for cadmium and lead,  
H:\r5crl\vol3\metals\sconnet\20010009\6000-Tl\120600 for thallium.

This narrative and the Results/QC Summary spreadsheet are stored in:

H:\r5crl\vol3\metals\sconnet\20010009\Reports\GFAA Narrative.wpd  
H:\r5crl\vol3\metals\sconnet\20010009\Reports\QCReport.wk4

Since RLIMS was unavailable, the AA metals analysis results are reported in a Lotus spreadsheet only. Time will be necessary in the future to enter all analysis results into RLIMS.



12-11-00

ENVIRONMENTAL PROTECTION AGENCY  
 REGION V  
 CENTRAL REGIONAL LABORATORY  
 FINAL RESULT REPORT FOR THE TEAM: METALS

DIVISION/BRANCH: SUPERFUND      STUDY: HIMCO DUMP      SAMPLING DATE: 11/15-16/00  
 DU NUMBER: 50102D      PRIORITY: ROUTINE      LAB ARRIVAL DATE: 11/17/00  
 DATASET NUMBER: 20010009      LABORATORY ESAT      DUE DATE: 12/18/00

|                  | CRL LOG NUMBER | SAMPLE DESCRIPTION | WATER Antimony (ug/L) | WATER Arsenic (ug/L) | WATER Cadmium (ug/L) | WATER Lead (ug/L) | WATER Selenium (ug/L) | WATER Thallium (ug/L) |
|------------------|----------------|--------------------|-----------------------|----------------------|----------------------|-------------------|-----------------------|-----------------------|
| 1                | 2001SK01S01    | RES WELL 1         | 4U                    | 2U                   | 0.3U                 | 2U                | 4U                    | 4UD                   |
| 2                | 2001SK01S02    | RES WELL 2         | 4U                    | 4UD                  | 0.6UD                | 2U                | 8UD                   | 6UD                   |
| 3                | 2001SK01D02    | DUPLICATE OF S02   | 4U                    | 2U                   | 0.6UD                | 2U                | 8UD                   | 4UD                   |
| 4                | 2001SK01S03    | MW116A             | 16UD                  | 10UD                 | 0.9UD                | 2M                | 40UD                  | 20UD                  |
| 5                | 2001SK01S04    | 101A               | 8UD                   | 6.4                  | 0.6UD                | 2U                | 4U                    | 20UD                  |
| 6                | 2001SK01R01    | Method Blank       | 4U                    | 2U                   | 0.3U                 | 2U                | 4U                    | 2U                    |
|                  | (UNDILUTED)    | Reporting Limit    | 4                     | 2                    | 0.3                  | 2                 | 4                     | 2                     |
| DATE OF ANALYSIS |                |                    | 12/4-5/00             | 12/6-7/00            | 12/7,11/00           | 12/7/00           | 12/6-7/00             | 12/4-6/00             |
| ANALYST          |                |                    | S. Connet             | S. Connet            | S. Connet            | S. Connet         | S. Connet             | S. Connet             |

Reviewed By:  Date: 12-13-2000





## CRL Data Review Qualification Codes

| QUALIFIER | DESCRIPTION   |
|-----------|---|
| B         | This flag is used when the analyte is found in the associated <u>B</u> lank as well as the sample. It indicates possible blank contamination and warns the user to take appropriate action while assessing the data. See the case narrative for a discussion of common lab contaminants and/or the relative concentration of contamination in the samples and blanks for relevance.   |
| D         | This flag is used when the analyte concentration results from a required <u>D</u> ilution of the sample, extract or digestate.  |
| E         | This flag is used to identify analyte concentrations <u>E</u> xceeding the upper calibration range of the analytical instrument after dilution of the sample, extract or digestate. The reported value is considered to be <u>estimated</u> .   |
| J         | This flag is used when the analyte is <u>estimated</u> due to quality control limit(s) being exceeded. This flag accompanies all GC/MS tentatively identified compounds (TICs). This flag also applies to a suspected, unidentified interference. This flag is placed on affected detected results as well as non-detected (i.e., "U" flagged) results. ( <u>J</u> is the flag used in the Superfund CLP SOW and Data Review Functional Guidelines and is used by CRL for consistency.) |
| M         | This flag is used when the analyte is confirmed to be qualitatively present in the sample, extract or digestate, at or above the CRL <u>M</u> ethod Detection Limit (MDL) but below the CRL reporting limit (RL). This flag applies to all values in this concentration range and indicates the quantitated value is <u>estimated</u> due to its presence in this concentration range.  |
| N         | This flag applies to GC/MS <u>T</u> entatively Identified Compounds (TICs) that have a mass spectral library match.   |
| Q         | This flag applies to analyte data that are severely estimated due to quality control and/or <u>Q</u> uantitation problems, but are confirmed to be qualitatively present in the sample. <u>No value is reported with this qualification flag.</u>   |
| R         | This flag applies to analyte data that are <u>R</u> ejected and unusable due to severe quality control, quantitation and/or qualitative identification problems. No other qualification flags are reported for this analyte. <u>No value is reported with this qualification flag.</u>  |
| U         | This flag is used when the analyte was analyzed but <u>U</u> ndetected in the sample. The CRL RL for the analyte accompanies this flag. As with sample results that are positive, the value is corrected for dry weight, dilution and/or sample weight or volume.   |

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY



REGION 5 CENTRAL REGIONAL LABORATORY

536 SOUTH CLARK STREET

CHICAGO, ILLINOIS 60605

Date: DEC 11 1990

Subject: Review of Region 5 Data for Himco Dump Code:054J

From: ESAT, Chemist  
Region 5 Central Regional Laboratory

To: Gwen Massenburg  
SR-6J

Attached are the results for Site: Himco Dump Code:054J

CRL Data Set Number: 20010009

for analyses of: Mercury

Results are reported for sample numbers: 2001SK01S01, 2001SK01S02, 2001SK01D02,  
2001SK01S03, 2001SK01S04 and 2001SK01R01

Results Status:

- ( x ) Acceptable for Use
- ( ) Data Qualified, but Acceptable for use
- ( ) Data Unacceptable for Use

*Sylvia Griffin*

DEC 8 1

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CRL Data Management Coordinator and Date Received

Date Transmitted: \_\_\_\_\_

Please have the US EPA project leader fill out the customer survey form on the Region 5 Intranet: <http://www.r5intra.epa.gov/crl/qa.html>, (← by clicking on this link, or call George Schupp, CRL Sample Coordinator, at 3-1226).

Please sign and date this form below and return it with any comments to:

Sylvia Griffin  
Data Management Coordinator  
Region 5 Central Regional Laboratory  
ML - 10C

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Received by and Date

Comments:

ENVIRONMENTAL PROTECTION AGENCY  
FOR THE EPA

DIVISION/BRANCH: SUPERFUND      SAMPLING DATE: 11-15-1980      LAB ARRIVAL DATE: 11-22-1980      DUE DATE: 12-15-1980  
 PU NUMBER: 50120      DATABASE NUMBER: 201009      STUDY: TRINACER LANDFILL      PRIORITY: 2      CONTRACTOR: 2

| CRIL LUG NUMBER | SAMPLE DESCRIPTION | MATRIX    | TEST | UNITS | PL1235826 | MATRIX | TEST | UNITS | PL1235826 | MATRIX | TEST | UNITS | PL1235826 | MATRIX | TEST | UNITS | PL1235826 |  |
|-----------------|--------------------|-----------|------|-------|-----------|--------|------|-------|-----------|--------|------|-------|-----------|--------|------|-------|-----------|--|
| 2010SK01        | METHOD BLANK       | WATER     | Hg   | ug/L  |           |        |      |       |           |        |      |       |           |        |      |       |           |  |
| R01             | 1ST RES WELLS      | RES WELLS |      |       |           |        |      |       |           |        |      |       |           |        |      |       |           |  |
| S01             | 2ND RES WELLS      | RES WELLS |      |       |           |        |      |       |           |        |      |       |           |        |      |       |           |  |
| S02             | DUPPLICATE OF S02  |           |      |       |           |        |      |       |           |        |      |       |           |        |      |       |           |  |
| D02             | MW110A             |           |      |       |           |        |      |       |           |        |      |       |           |        |      |       |           |  |
| S03             | L01A               |           |      |       |           |        |      |       |           |        |      |       |           |        |      |       |           |  |
| S04             |                    |           |      |       |           |        |      |       |           |        |      |       |           |        |      |       |           |  |

505688  
505689  
505690  
505682  
505682  
505681

Parameter: Mercury  
Method: 245.2 \*DNS (WATER)  
Site: Himco Dump  
Date: December 1, 2000  
Prepared by: Stephen Connet

TDF: 5104-308  
PWO: ESE51058  
WAD: 05-00-4-04  
Data Set: 20010009

NARRATIVE

Six (6) water samples from the Himco Dump site [2001SK01S01 (RES WELL 1), S02 (RES WELL 2), D02 (DUPLICATE OF S02), S03 (MW116A), S04 (.01A), R01 (Method Blank)] were collected on November 15-16, 2000 and were received properly preserved by CRL on November 17, 2000. The samples were assigned to ESAT for mercury analysis.

Due to continuing problems with the autoprep station, the samples were manually digested with samples from data set 20010010 on November 29, 2000. Hydroxylamine was added and the samples analyzed on November 30, 2000. All digestion tubes were capped during digestion.

Non-detect results are reported to the reporting limit (RL).

All QC audits were in control; all sample results are acceptable.

This narrative, the instrument run file, QC summary form and results spreadsheet are stored in:

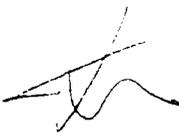
I:\r5crl\vol1\Min\_nut\Sconnet\PSAMercury\HgWATER\20010009\20010009\_nar.wpd

I:\r5crl\vol1\Min\_nut\Sconnet\PSAMercury\HgWATER\20010009\20010910.res

I:\r5crl\vol1\Min\_nut\Sconnet\PSAMercury\HgWATER\20010009\QC Summary.wpd

I:\r5crl\vol1\Min\_nut\Sconnet\PSAMercury\HgWATER\20010009\20010009\_res.wpd

Since RLIMS was unavailable, the results are reported in a word-processing document only. Time will be necessary in the future to enter all results into RLIMS.

 12-1-00



## CRL Data Review Qualification Codes

| QUALIFIER | DESCRIPTION  |
|-----------|--|
| B         | This flag is used when the analyte is found in the associated <u>B</u> lank as well as the sample. It indicates possible blank contamination and warns the user to take appropriate action while assessing the data. See the case narrative for a discussion of common lab contaminants and/or the relative concentration of contamination in the samples and blanks for relevance.  |
| D         | This flag is used when the analyte concentration results from a required <u>D</u> ilution of the sample, extract or digestate.   |
| E         | This flag is used to identify analyte concentrations <u>E</u> xceeding the upper calibration range of the analytical instrument after dilution of the sample, extract or digestate. <u>The reported value is considered to be estimated</u>  |
| J         | This flag is used when the analyte is <u>e</u> stimated due to quality control limit(s) being exceeded. This flag accompanies all GC/MS tentatively identified compounds (TICs). This flag also applies to a suspected, unidentified interference. This flag is placed on affected detected results as well as non-detected (i.e., "U" flagged) results. ( <u>J</u> is the flag used in the Superfund CLP SOW and Data Review Functional Guidelines and is used by CRL for consistency.) |
| M         | This flag is used when the analyte is confirmed to be qualitatively present in the sample, extract or digestate, at or above the CRL <u>M</u> ethod Detection Limit (MDL) but below the CRL reporting limit (RL). This flag applies to all values in this concentration range and indicates the quantitated value is <u>e</u> stimated due to its presence in this concentration range.  |
| N         | This flag applies to GC/MS <u>T</u> entatively Identified Compounds (TICs) that have a mass spectral library match.  |
| Q         | This flag applies to analyte data that are severely estimated due to quality control and/or <u>Q</u> uantitation problems, but are confirmed to be qualitatively present in the sample. <u>No value is reported with this qualification flag.</u>  |
| R         | This flag applies to analyte data that are <u>R</u> ejected and unusable due to severe quality control, quantitation and/or qualitative identification problems. No other qualification flags are reported for this analyte. <u>No value is reported with this qualification flag.</u>   |
| U         | This flag is used when the analyte was analyzed but <u>U</u> ndetected in the sample. The CRL RL for the analyte accompanies this flag. As with sample results that are positive, the value is corrected for dry weight, dilution and/or sample weight or volume.  |



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 5 CENTRAL REGIONAL LABORATORY

536 SOUTH CLARK STREET

CHICAGO, ILLINOIS 60605

Date: 8/11/00

Subject: Review of Region 5 Data for Himco Dump Code:054J

From: ESAT, Chemist  
Region 5 Central Regional Laboratory

To: Green Hossackburg  
SR 6J

Attached are the results for Site: Himco Dump Code:054J

CRL Data Set Number: 20010009

for analyses of: Cyanide

Results are reported for sample numbers: 2001SK01S01, 2001SK01S02, 2001SK01D02,  
2001SK01S03, 2001SK01S04 and 2001SK01R01

Results Status:

- Acceptable for Use
- Data Qualified, but Acceptable for use
- Data Unacceptable for Use

George Schupp  
CRL Data Management Coordinator and Date Received

Date Transmitted: 01/27/2000

Please have the US EPA project leader fill out the customer survey form on the Region 5 Intranet:  
<http://www.r5intra.epa.gov/crl/qa.html> (← by clicking on this link, or call George Schupp, CRL  
Sample Coordinator, at 3-1226).

Please sign and date this form below and return it with any comments to:

Sylvia Griffin  
Data Management Coordinator  
Region 5 Central Regional Laboratory  
ML - 10C

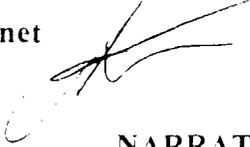
\_\_\_\_\_  
Received by and Date

Comments:



Method: 335.2NS (Cyanide)  
Site: Himco Dump  
Date: November 22, 2000  
Prepared by: Stephen Connet

TDF: 5104-308  
PWO: ESE51058  
WAD: 05-00-4-04  
Data Set: 20010009



NARRATIVE

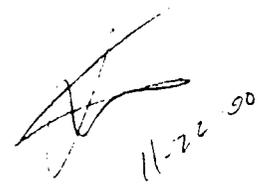
Six (6) water samples from the Himco Dump site [2001SK01S01(RES WELL 1), S02 (RES WELL 2), D02 (DUPLICATE OF S02), S03 (MW116A), S04 (101A), R01 (Method Blank)] were collected on November 15-16, 2000 and were received by CRL on November 17, 2000. All samples except S03 were pH >12, which was pH 10. Distillation and analysis were performed on S03 without adjustment to the pH. The samples were assigned to ESAT for cyanide analysis.

The samples were checked with lead acetate and potassium iodide starch papers with negative results. The samples were distilled using the MIDI distillation method on November 21, 2000. The samples were analyzed on November 21, 2000 for cyanide using a Lachat QuickChem AE Autoanalyzer according to CRL methods. The samples were analyzed within the 14-day holding time limit.

All QC audits were in control: all sample results except S03, which is estimated due to a possible low bias, are acceptable. A control sample was diluted 1:1, distilled and analyzed with the sample batch; no criteria have been established for the sample. All results are reported to the reporting limit (8 ug/L).

The narrative, instrument run file, QC summary report and Results spreadsheet are stored in:  
I:\r5cr\vol1\Min\_nut\Sconnet\Lachat2(ESAT)\20010009\20010009\_nar.wpd  
I:\r5cr\vol1\Min\_nut\Sconnet\Lachat2(ESAT)\20010009\112100E.FDT  
I:\r5cr\vol1\Min\_nut\Sconnet\Lachat2(ESAT)\20010009\QC Summary.wpd  
I:\r5cr\vol1\Min\_nut\Sconnet\Lachat2(ESAT)\20010009\20010009\_res.wpd

Since RLIMS was unavailable, the results are reported in a word-processing document only. Time will be necessary in the future to enter all results into RLIMS.



11-22-00



## CRL Data Review Qualification Codes

| QUALIFIER | DESCRIPTION  |
|-----------|--|
| B         | This flag is used when the analyte is found in the associated <u>B</u> lank as well as the sample. It indicates possible blank contamination and warns the user to take appropriate action while assessing the data. See the case narrative for a discussion of common lab contaminants and/or the relative concentration of contamination in the samples and blanks for relevance.  |
| D         | This flag is used when the analyte concentration results from a required <u>D</u> ilution of the sample, extract or digestate.   |
| E         | This flag is used to identify analyte concentrations <u>E</u> xceeding the upper calibration range of the analytical instrument after dilution of the sample, extract or digestate. <u>The reported value is considered to be estimated</u>  |
| J         | This flag is used when the analyte is <u>e</u> stimated due to quality control limit(s) being exceeded. This flag accompanies all GC/MS tentatively identified compounds (TICs). This flag also applies to a suspected, unidentified interference. This flag is placed on affected detected results as well as non-detected (i.e., "U" flagged) results. ( <u>J</u> is the flag used in the Superfund CLP SOW and Data Review Functional Guidelines and is used by CRL for consistency.) |
| M         | This flag is used when the analyte is confirmed to be qualitatively present in the sample, extract or digestate, at or above the CRL <u>M</u> ethod Detection Limit (MDL) but below the CRL reporting limit (RL). This flag applies to all values in this concentration range and indicates the quantitated value is <u>e</u> stimated due to its presence in this concentration range.  |
| N         | This flag applies to GC MS Te <u>n</u> tatively Identified Compounds (TICs) that have a mass spectral library match.   |
| Q         | This flag applies to analyte data that are severely estimated due to quality control and/or <u>Q</u> uantitation problems, but are confirmed to be qualitatively present in the sample. <u>No value is reported with this qualification flag.</u>  |
| R         | This flag applies to analyte data that are <u>R</u> ejected and unusable due to severe quality control, quantitation and/or qualitative identification problems. No other qualification flags are reported for this analyte. <u>No value is reported with this qualification flag.</u>   |
| U         | This flag is used when the analyte was analyzed but <u>U</u> ndetected in the sample. The CRL RL for the analyte accompanies this flag. As with sample results that are positive, the value is corrected for dry weight, dilution and/or sample weight or volume.  |

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY



REGION 5 CENTRAL REGIONAL LABORATORY

536 SOUTH CLARK STREET

CHICAGO, ILLINOIS 60605

Date: MAR 27 2002

Subject: Review of Region 5 Data for HIMCO LF

From: Francis A. Awanya, Chemist *F.A.A.*  
Region 5 Central Regional Laboratory

To:

*Juan M. ...*  
*SK-65*

Attached are the results for Site: HIMCO LF

CRL Data Set Number: 20010009

for analyses of : Sulfate, Bromide, and Chloride

Results are reported for sample number 2001SK01S01, 2001SK01S02, 2001SK01D02, 2001SK01S03, and 2001SK01S04.

This transmittal corrects sample descriptions in the narrative and report form as follows. 2001SK01S01 to read 1<sup>st</sup> RES WELL and for 2001SK01R01 to read METHOD BLANK.

Results Status:

( X ) Acceptable for Use:

( ) Data Qualified, but Acceptable for use:

( ) Data Unacceptable for Use

*Sylvia Griffin*  
CRL Data Management Coordinator and Date Received

MAR 27 2002

Date Transmitted: MAR 27 2002

Please have the US EPA project leader fill out the customer survey form on the Region 5 Intranet: <http://www.r5intra.epa.gov/crl/qa.html>, (← by clicking on this link, or call George Schupp, CRL Sample Coordinator, at 3-1226).

Please sign and date this form below and return it with any comments to:

Sylvia Griffin  
Data Management Coordinator  
Region 5 Central Regional Laboratory  
ML - 10C

---

Received by and Date

Comments:

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY



REGION 5 CENTRAL REGIONAL LABORATORY

536 SOUTH CLARK STREET

CHICAGO, ILLINOIS 60605

Date JAN 19 2001  
Subject Review of Region 5 Data for HIMCO LF  
From Francis A. Awanya, Chemist *FAA*  
Region 5 Central Regional Laboratory

To

Attached are the results for Site. HIMCO LF  
CRL Data Set Number: 20010009  
for analyses of Sulfate, Bromide, and Chloride  
Results are reported for sample numbers 2001SK01S01, 2001SK01S02, 2001SK01D02,  
2001SK01S03, 2001SK01S04, and 2001SK01R01.

Results Status

- ( X ) Acceptable for Use.
- ( X ) Data Qualified, but Acceptable for use **Bromide (sample 2001SK01S03)**
- ( ) Data Unacceptable for Use

JAN 16 2001

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CRL Data Management Coordinator and Date Received

Date Transmitted: JAN 16 2001

Please have the US EPA project leader fill out the customer survey form on the Region 5 Intranet: <http://www.r5intra.epa.gov/crl/qa.html> (← by clicking on this link, or call George Schupp, CRL Sample Coordinator, at 3-1226)

Please sign and date this form below and return it with any comments to:

Sylvia Griffin  
Data Management Coordinator  
Region 5 Central Regional Laboratory  
ML - 10C

---

Received by and Date

Comments:



|                    |                   |            |                                       |
|--------------------|-------------------|------------|---------------------------------------|
| Data Set Number:   | <u>20010009</u>   | Parameter: | <u>Bromide, Sulfate, and Chloride</u> |
| Facility Name:     | <u>HIMCO LF</u>   |            |                                       |
| Study Name:        | <u>HIMCO LF</u>   |            |                                       |
| Date of Narrative: | <u>01/03/2001</u> | Analyst:   | <u>Francis A. Awanya</u>              |
|                    |                   | Signature: | <u>F A A</u>                          |

**ANALYSIS CASE NARRATIVE**

Six (6) routine water samples were collected for the above study between 11/15/2000 and 11/16/2000. The samples arrived at the Central Regional Laboratory (CRL) on 11/17/2000. CRL sample identification numbers (CRL Sample ID) were assigned to the samples. The sample descriptions or station numbers were obtained from the Analysis Request Form (ARF). The following samples were received for analysis;

| CRL Sample ID | Sample Description              |
|---------------|---------------------------------|
| 2001SK01S01   | 1 <sup>st</sup> RES WELL        |
| 2001SK01R01   | METHOD BLANK                    |
| 2001SK01S02   | 2 <sup>nd</sup> RES WELL MS/MSD |
| 2001SK01D02   | DUPLICATE                       |
| 2001SK01S03   | MW116A                          |
| 2001SK01S04   | 101A                            |

Samples were checked out for bromide, sulfate, and chloride analysis from the CRL sample custodian on 12/12/2000. The samples were properly preserved by refrigeration. They were transferred to the Analytical and Inorganic (A&I) laboratory section of the CRL, and kept in a sample storage refrigerator until all other required analyses were completed.

**SAMPLE ANALYSIS:**

All samples were analyzed for bromide, sulfate and chloride using CRL Standard Operating Procedure (CRL.SOP) AIG045 (Method reference 300 A & B, EPA/600/R-93-100). No additional sample preparation was necessary. The instrument was calibrated on 12/13/2000, and samples analysis was completed between 12/13-14/2000. Analyses were completed within the required holding times.

**QUALITY CONTROL (QC):**

Analysis results were evaluated using the QC requirements of CRL.SOP AIG045 (Method reference 300 A & B, EPA/600/R-93-100). Required quality control criteria for the laboratory, method, and system performance audits were evaluated and determined to be within the limits with the following exception.

**Bromide:** The concentrations of bromide found in sample 2001SK01S03 (3.75 mg Br/L), exceeded the upper calibration standard (2.0 mg Br/L). This was not detected in time for the analysis to be repeated within the holding time. A "J" flag is applied to the bromide result for

|                    |                   |            |                                       |
|--------------------|-------------------|------------|---------------------------------------|
| Data Set Number:   | <u>20010009</u>   | Parameter: | <u>Bromide, Sulfate, and Chloride</u> |
| Facility Name:     | <u>HIMCO LF</u>   |            |                                       |
| Study Name:        | <u>HIMCO LF</u>   |            |                                       |
| Date of Narrative: | <u>01/03/2001</u> | Analyst:   | <u>Francis A. Awanva</u>              |
|                    |                   | Signature: | <u>[Signature]</u>                    |

**ANALYSIS CASE NARRATIVE**

sample 2001SK01S03. Bromide concentrations in this sample should be considered estimated. A review of the peak areas indicated that the results were within the instrument linear range for the low-level calibration. The data is acceptable for use with qualification as noted.

**SAMPLE RESULTS AND REPORTING:**

***Sulfate and Chloride:*** A "U" flag was applied to sulfate and chloride results for sample 2001SK01R01. Sulfate and chloride concentrations in the sample were found to be below detection. "D" flags were assigned to all remaining sulfate and chloride results. Assay concentrations exceeded the upper calibration standard and sample dilutions were required.

***Bromide:*** "U" flags were applied to bromide results for samples 2001SK01R01 and 2001SK01S02. Bromide concentrations found in those samples were below detection. "M" flags were applied to bromide results for samples 2001SK01S01, D02, and S04. The concentrations of bromide in those samples were found to be above detection but below the reporting limit. A "J" flag was applied to bromide result for sample 2001SK01S03.

A code defining all flags is attached with the data transmittal form.

**MANUAL PEAK INTEGRATION:**

No manual peak integration was used to process the results.

**ELECTRONIC DATA:**

Electronic data are archived in;  
H:\R5crl\VOL1\MIN\_NUT\FAWANYA\DX500\_SYSTEM3\_CD20\20010009\..under the following additional folders;

1. Autosample\_Schedules, 2. Datafiles 3. Method\_files 4.Narrative.

## ATTACHMENT 1

## CRL Data Review Qualification Codes

| QUALIFIER | DESCRIPTION  |
|-----------|--|
| B         | This flag is used when the analyte is found in the associated <u>B</u> lank as well as the sample. It indicates possible blank contamination and warns the user to take appropriate action while assessing the data.   |
| D         | This flag is used when the analyte concentration results from a required <u>D</u> ilution of the sample, extract or digestate.   |
| E         | This flag is used to identify analyte concentrations <u>E</u> xceeding the upper calibration range of the analytical instrument after dilution of the sample, extract or digestate. <u>The reported value is considered to be estimated.</u>   |
| J         | This flag is used when the analyte is confirmed to be qualitatively present in the sample, extract or digestate, at or above the CRL reporting limit (RL) but the quantitated value is <u>estimated</u> due to quality control limit(s) being exceeded. This flag accompanies all GC/MS tentatively identified compounds (TICs). This flag also applies to a suspected, unidentified interference. ( <u>J</u> is the flag used in the Superfund CLP SOW and Data Review Functional Guidelines and is used by CRL for consistency.) |
| M         | This flag is used when the analyte is confirmed to be qualitatively present in the sample, extract or digestate, at or above the CRL <u>M</u> ethod Detection Limit (MDL) but below the CRL reporting limit (RL). This flag applies to all values in this concentration range and indicates the quantitated value is <u>estimated</u> due to its presence in this concentration range.   |
| N         | This flag applies to GC/MS TICs that have <u>N</u> o mass spectral library match.  |
| Q         | This flag applies to analyte data that are severely estimated due to quality control and/or <u>Q</u> uantitation problems, but are confirmed to be qualitatively present in the sample. <u>No value is reported with this qualification flag.</u>  |
| R         | This flag applies to analyte data that are <u>R</u> ejected and unusable due to severe quality control, quantitation and/or qualitative identification problems. No other qualification flags are reported for this analyte. <u>No value is reported with this qualification flag.</u>   |
| U         | This flag is used when the analyte was analyzed but <u>U</u> ndetected in the sample. The CRL RL for the analyte accompanies this flag. As with sample results that are positive, the value is corrected for dry weight, dilution and/or sample weight or volume.  |

ENVIRONMENTAL PROTECTION AGENCY  
 REGION V  
 CENTRAL REGIONAL LABORATORY  
 FINAL RESULT REPORT FOR THE TEAM: MINERAL/NUTRIENTS

DIVISION/BRANCH: SUPERFUND SAMPLING DATE: 11/15 - 16/2000 LAB ARRIVAL DATE: 11/17/2000 DUE DATE: 12/18/2000  
 DU NUMBER: 50102D DATASET NUMBER: 20010009 STUDY: HIMCO LF PRIORITY: Routine LABORATORY :CRL

|                  | CRL LOG     | SAMPLE DESCRIPTION       | BROMIDE IN WATER<br>(mg Br <sup>-</sup> /L) | SULFATE IN WATER<br>(mg SO <sub>4</sub> <sup>=</sup> /L) | CHLORIDE IN WATER<br>(mg Cl <sup>-</sup> /L) |  |  |
|------------------|-------------|--------------------------|---|--|--|--|--|
| 1                | 2001SK01S01 | 1 <sup>st</sup> RES WELL | 0.04 M                                      | 79.3 D   | 96.5 D                                       |  |  |
| 2                | 2001SK01R01 | METHOD BLANK             | 0.014 U                                     | 0.025 U  | 0.050 U                                      |  |  |
| 3                | 2001SK01S02 | 2 <sup>nd</sup> RES WELL | 0.014 U                                     | 105 D  | 99.9 D                                       |  |  |
| 4                | 2001SK01D02 | DUPLICATE                | 0.03 M                                      | 104 D  | 98.4 D                                       |  |  |
| 5                | 2001SK01S03 | MW116A                   | 3.75 J                                      | 1020 D   | 26.0 D                                       |  |  |
| 6                | 2001SK01S04 | 101A                     | 0.32 M                                      | 177 D  | 27.2 D                                       |  |  |
| DATE OF ANALYSIS |             |                          | 12/13/2000                                  | 12/13-14/2000  | 12/13-14/2000                                |  |  |
| ANALYST          |             |                          | <i>FRA</i>                                  | <i>FRA</i>   | <i>FRA</i>                                   |  |  |

Reviewed by: ES Date: 3/27/02



1LCC  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00F5

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: E00FL

Lab Sample ID: 6066.001

Date Received: 05/05/00

Lab File ID: H1040

Date Extracted: 05/09/00

Sample Volume: 1000 (mL)

Date Analyzed: 05/16/00

Concentrated Extract Volume: 1000 (uL)

Dilution Factor: 1.0

Injection Volume: 1 (uL)

| CAS NO.   | COMPOUND                   | CONCENTRATION<br>(ug/L) | Q |
|-----------|----------------------------|-------------------------|---|
| 51-28-5   | 2,4-Dinitrophenol          | 20                      | U |
| 100-02-7  | 4-Nitrophenol              | 20                      | U |
| 132-64-9  | Dibenzofuran               | 5                       | U |
| 121-14-2  | 2,4-Dinitrotoluene         | 5                       | U |
| 84-66-2   | Diethylphthalate           | 5                       | U |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 5                       | U |
| 86-73-7   | Fluorene                   | 5                       | U |
| 100-01-6  | 4-Nitroaniline             | 20                      | U |
| 534-52-1  | 4,6-Dinitro-2-methylphenol | 20                      | U |
| 86-30-6   | N-Nitrosodiphenylamine (1) | 5                       | U |
| 101-55-3  | 4-Bromophenyl-phenylether  | 5                       | U |
| 118-74-1  | Hexachlorobenzene          | 5                       | U |
| 87-86-5   | Pentachlorophenol          | 20                      | U |
| 85-01-8   | Phenanthrene               | 5                       | U |
| 120-12-7  | Anthracene                 | 5                       | U |
| 84-74-2   | Di-n-butylphthalate        | 5                       | U |
| 206-44-0  | Fluoranthene               | 5                       | U |
| 129-00-0  | Pyrene                     | 5                       | U |
| 85-68-7   | Butylbenzylphthalate       | 5                       | U |
| 91-94-1   | 3,3'-Dichlorobenzidine     | 5                       | U |
| 56-55-3   | Benzo(a)anthracene         | 5                       | U |
| 218-01-9  | Chrysene                   | 5                       | U |
| 117-81-7  | bis(2-Ethylhexyl)phthalate | 2                       | J |
| 117-84-0  | Di-n-octylphthalate        | 5                       | U |
| 205-99-2  | Benzo(b)fluoranthene       | 5                       | U |
| 207-08-9  | Benzo(k)fluoranthene       | 5                       | U |
| 50-32-8   | Benzo(a)pyrene             | 5                       | U |
| 193-39-5  | Indeno(1,2,3-cd)Pyrene     | 5                       | U |
| 53-70-3   | Dibenz(a,h)anthracene      | 5                       | U |
| 191-24-2  | Benzo(g,h,i)perylene       | 5                       | U |

(1) - Cannot be separated from Diphenylamine

1LCF  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00F5

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004

Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: E00FL

Lab Sample ID: 6066.001      Date Received: 05/05/00

Lab File ID: H1040      Date Extracted: 05/09/00

Sample Volume: 1000 (mL)      Date Analyzed: 05/16/00

Concentrated Extract Volume: 1000 (uL)      Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

Number TICs found: 0

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC.<br>(ug/L) | Q |
|------------|---------------|----|----------------------|---|
| 1.         |               |    |                      |   |
| 2.         |               |    |                      |   |
| 3.         |               |    |                      |   |
| 4.         |               |    |                      |   |
| 5.         |               |    |                      |   |
| 6.         |               |    |                      |   |
| 7.         |               |    |                      |   |
| 8.         |               |    |                      |   |
| 9.         |               |    |                      |   |
| 10.        |               |    |                      |   |
| 11.        |               |    |                      |   |
| 12.        |               |    |                      |   |
| 13.        |               |    |                      |   |
| 14.        |               |    |                      |   |
| 15.        |               |    |                      |   |
| 16.        |               |    |                      |   |
| 17.        |               |    |                      |   |
| 18.        |               |    |                      |   |
| 19.        |               |    |                      |   |
| 20.        |               |    |                      |   |
| 21.        |               |    |                      |   |
| 22.        |               |    |                      |   |
| 23.        |               |    |                      |   |
| 24.        |               |    |                      |   |
| 25.        |               |    |                      |   |
| 26.        |               |    |                      |   |
| 27.        |               |    |                      |   |
| 28.        |               |    |                      |   |
| 29.        |               |    |                      |   |
| 30.        |               |    |                      |   |

1LCB  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00FF

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: E00FL

Lab Sample ID: 6050.003

Date Received: 05/03/00

Lab File ID: H1032

Date Extracted: 05/05/00

Sample Volume: 1000 (mL)

Date Analyzed: 05/16/00

Concentrated Extract Volume: 1000 (uL)

Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

| CAS NO.  | COMPOUND                     | CONCENTRATION<br>(ug/L) | Q |
|----------|------------------------------|-------------------------|---|
| 108-95-2 | Phenol                       | 5                       | U |
| 111-44-4 | bis(2-Chloroethyl)ether      | 5                       | U |
| 95-57-8  | 2-Chlorophenol               | 5                       | U |
| 95-48-7  | 2-Methylphenol               | 5                       | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 5                       | U |
| 106-44-5 | 4-Methylphenol               | 5                       | U |
| 621-64-7 | N-Nitroso-di-n-propylamine   | 5                       | U |
| 67-72-1  | Hexachloroethane             | 5                       | U |
| 98-95-3  | Nitrobenzene                 | 5                       | U |
| 78-59-1  | Isophorone                   | 5                       | U |
| 88-75-5  | 2-Nitrophenol                | 5                       | U |
| 105-67-9 | 2,4-Dimethylphenol           | 5                       | U |
| 111-91-1 | bis(2-Chloroethoxy)methane   | 5                       | U |
| 120-83-2 | 2,4-Dichlorophenol           | 5                       | U |
| 91-20-3  | Naphthalene                  | 5                       | U |
| 106-47-8 | 4-Chloroaniline              | 5                       | U |
| 87-68-3  | Hexachlorobutadiene          | 5                       | U |
| 59-50-7  | 4-Chloro-3-methylphenol      | 5                       | U |
| 91-57-6  | 2-Methylnaphthalene          | 5                       | U |
| 77-47-4  | Hexachlorocyclopentadiene    | 5                       | U |
| 88-06-2  | 2,4,6-Trichlorophenol        | 5                       | U |
| 95-95-4  | 2,4,5-Trichlorophenol        | 20                      | U |
| 91-58-7  | 2-Chloronaphthalene          | 5                       | U |
| 88-74-4  | 2-Nitroaniline               | 20                      | U |
| 131-11-3 | Dimethylphthalate            | 5                       | U |
| 208-96-8 | Acenaphthylene               | 5                       | U |
| 606-20-2 | 2,6-Dinitrotoluene           | 5                       | U |
| 99-09-2  | 3-Nitroaniline               | 20                      | U |
| 83-32-9  | Acenaphthene                 | 5                       | U |

1LCC  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00FF

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: E00FL

Lab Sample ID: 6050.003

Date Received: 05/03/00

Lab File ID: H1032

Date Extracted: 05/05/00

Sample Volume: 1000 (mL)

Date Analyzed: 05/16/00

Concentrated Extract Volume: 1000 (uL)

Dilution Factor: 1.0

Injection Volume: 1 (uL)

| CAS NO.        | COMPOUND                   | CONCENTRATION<br>(ug/L) | Q |
|----------------|----------------------------|-------------------------|---|
| 51-28-5-----   | 2,4-Dinitrophenol          | 20                      | U |
| 100-02-7-----  | 4-Nitrophenol              | 20                      | U |
| 132-64-9-----  | Dibenzofuran               | 5                       | U |
| 121-14-2-----  | 2,4-Dinitrotoluene         | 5                       | U |
| 84-66-2-----   | Diethylphthalate           | 2                       | J |
| 7005-72-3----- | 4-Chlorophenyl-phenylether | 5                       | U |
| 86-73-7-----   | Fluorene                   | 5                       | U |
| 100-01-6-----  | 4-Nitroaniline             | 20                      | U |
| 534-52-1-----  | 4,6-Dinitro-2-methylphenol | 20                      | U |
| 86-30-6-----   | N-Nitrosodiphenylamine (1) | 5                       | U |
| 101-55-3-----  | 4-Bromophenyl-phenylether  | 5                       | U |
| 118-74-1-----  | Hexachlorobenzene          | 5                       | U |
| 87-86-5-----   | Pentachlorophenol          | 20                      | U |
| 85-01-8-----   | Phenanthrene               | 5                       | U |
| 120-12-7-----  | Anthracene                 | 5                       | U |
| 84-74-2-----   | Di-n-butylphthalate        | 5                       | U |
| 206-44-0-----  | Fluoranthene               | 5                       | U |
| 129-00-0-----  | Pyrene                     | 5                       | U |
| 85-68-7-----   | Butylbenzylphthalate       | 5                       | U |
| 91-94-1-----   | 3,3'-Dichlorobenzidine     | 5                       | U |
| 56-55-3-----   | Benzo(a)anthracene         | 5                       | U |
| 218-01-9-----  | Chrysene                   | 5                       | U |
| 117-81-7-----  | bis(2-Ethylhexyl)phthalate | 18                      |   |
| 117-84-0-----  | Di-n-octylphthalate        | 5                       | U |
| 205-99-2-----  | Benzo(b)fluoranthene       | 5                       | U |
| 207-08-9-----  | Benzo(k)fluoranthene       | 5                       | U |
| 50-32-8-----   | Benzo(a)pyrene             | 5                       | U |
| 193-39-5-----  | Indeno(1,2,3-cd)Pyrene     | 5                       | U |
| 53-70-3-----   | Dibenz(a,h)anthracene      | 5                       | U |
| 191-24-2-----  | Benzo(g,h,i)perylene       | 5                       | U |

(1) - Cannot be separated from Diphenylamine

1LCF  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00FF

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004

Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: E00FL

Lab Sample ID: 6050.003      Date Received: 05/03/00

Lab File ID: H1032      Date Extracted: 05/05/00

Sample Volume: 1000 (mL)      Date Analyzed: 05/16/00

Concentrated Extract Volume: 1000 (uL)      Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

Number TICs found: 0

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC.<br>(ug/L) | Q |
|------------|---------------|----|----------------------|---|
| 1.         |               |    |                      |   |
| 2.         |               |    |                      |   |
| 3.         |               |    |                      |   |
| 4.         |               |    |                      |   |
| 5.         |               |    |                      |   |
| 6.         |               |    |                      |   |
| 7.         |               |    |                      |   |
| 8.         |               |    |                      |   |
| 9.         |               |    |                      |   |
| 10.        |               |    |                      |   |
| 11.        |               |    |                      |   |
| 12.        |               |    |                      |   |
| 13.        |               |    |                      |   |
| 14.        |               |    |                      |   |
| 15.        |               |    |                      |   |
| 16.        |               |    |                      |   |
| 17.        |               |    |                      |   |
| 18.        |               |    |                      |   |
| 19.        |               |    |                      |   |
| 20.        |               |    |                      |   |
| 21.        |               |    |                      |   |
| 22.        |               |    |                      |   |
| 23.        |               |    |                      |   |
| 24.        |               |    |                      |   |
| 25.        |               |    |                      |   |
| 26.        |               |    |                      |   |
| 27.        |               |    |                      |   |
| 28.        |               |    |                      |   |
| 29.        |               |    |                      |   |
| 30.        |               |    |                      |   |

1LCB  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00FG

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004  
 Lab Code: PDP Case No.: 27986 SAS No.: \_\_\_\_\_ SDG No.: E00FL  
 Lab Sample ID: 6050.004 Date Received: 05/03/00  
 Lab File ID: H1033 Date Extracted: 05/05/00  
 Sample Volume: 1000 (mL) Date Analyzed: 05/16/00  
 Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0  
 Injection Volume: 1.0 (uL)

| CAS NO.  | COMPOUND                     | CONCENTRATION<br>(ug/L) | Q |
|----------|------------------------------|-------------------------|---|
| 108-95-2 | Phenol                       | 5                       | U |
| 111-44-4 | bis(2-Chloroethyl) ether     | 5                       | U |
| 95-57-8  | 2-Chlorophenol               | 5                       | U |
| 95-48-7  | 2-Methylphenol               | 5                       | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 5                       | U |
| 106-44-5 | 4-Methylphenol               | 5                       | U |
| 621-64-7 | N-Nitroso-di-n-propylamine   | 5                       | U |
| 67-72-1  | Hexachloroethane             | 5                       | U |
| 98-95-3  | Nitrobenzene                 | 5                       | U |
| 78-59-1  | Isophorone                   | 5                       | U |
| 88-75-5  | 2-Nitrophenol                | 5                       | U |
| 105-67-9 | 2,4-Dimethylphenol           | 5                       | U |
| 111-91-1 | bis(2-Chloroethoxy)methane   | 5                       | U |
| 120-83-2 | 2,4-Dichlorophenol           | 5                       | U |
| 91-20-3  | Naphthalene                  | 5                       | U |
| 106-47-8 | 4-Chloroaniline              | 5                       | U |
| 87-68-3  | Hexachlorobutadiene          | 5                       | U |
| 59-50-7  | 4-Chloro-3-methylphenol      | 5                       | U |
| 91-57-6  | 2-Methylnaphthalene          | 5                       | U |
| 77-47-4  | Hexachlorocyclopentadiene    | 5                       | U |
| 88-06-2  | 2,4,6-Trichlorophenol        | 5                       | U |
| 95-95-4  | 2,4,5-Trichlorophenol        | 20                      | U |
| 91-58-7  | 2-Chloronaphthalene          | 5                       | U |
| 88-74-4  | 2-Nitroaniline               | 20                      | U |
| 131-11-3 | Dimethylphthalate            | 5                       | U |
| 208-96-8 | Acenaphthylene               | 5                       | U |
| 606-20-2 | 2,6-Dinitrotoluene           | 5                       | U |
| 99-09-2  | 3-Nitroaniline               | 20                      | U |
| 83-32-9  | Acenaphthene                 | 5                       | U |

1LCC  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00FG

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: E00FL

Lab Sample ID: 6050.004

Date Received: 05/03/00

Lab File ID: H1033

Date Extracted: 05/05/00

Sample Volume: 1000 (mL)

Date Analyzed: 05/16/00

Concentrated Extract Volume: 1000 (uL)

Dilution Factor: 1.0

Injection Volume: 1 (uL)

| CAS NO.        | COMPOUND                   | CONCENTRATION (ug/L) | Q |
|----------------|----------------------------|----------------------|---|
| 51-28-5-----   | 2,4-Dinitrophenol          | 20                   | U |
| 100-02-7-----  | 4-Nitrophenol              | 20                   | U |
| 132-64-9-----  | Dibenzofuran               | 5                    | U |
| 121-14-2-----  | 2,4-Dinitrotoluene         | 5                    | U |
| 84-66-2-----   | Diethylphthalate           | 3                    | J |
| 7005-72-3----- | 4-Chlorophenyl-phenylether | 5                    | U |
| 86-73-7-----   | Fluorene                   | 5                    | U |
| 100-01-6-----  | 4-Nitroaniline             | 20                   | U |
| 534-52-1-----  | 4,6-Dinitro-2-methylphenol | 20                   | U |
| 86-30-6-----   | N-Nitrosodiphenylamine (1) | 5                    | U |
| 101-55-3-----  | 4-Bromophenyl-phenylether  | 5                    | U |
| 118-74-1-----  | Hexachlorobenzene          | 5                    | U |
| 87-86-5-----   | Pentachlorophenol          | 20                   | U |
| 85-01-8-----   | Phenanthrene               | 5                    | U |
| 120-12-7-----  | Anthracene                 | 5                    | U |
| 84-74-2-----   | Di-n-butylphthalate        | 5                    | U |
| 206-44-0-----  | Fluoranthene               | 5                    | U |
| 129-00-0-----  | Pyrene                     | 5                    | U |
| 85-68-7-----   | Butylbenzylphthalate       | 5                    | U |
| 91-94-1-----   | 3,3'-Dichlorobenzidine     | 5                    | U |
| 56-55-3-----   | Benzo(a)anthracene         | 5                    | U |
| 218-01-9-----  | Chrysene                   | 5                    | U |
| 117-81-7-----  | bis(2-Ethylhexyl)phthalate | 33                   |   |
| 117-84-0-----  | Di-n-octylphthalate        | 5                    | U |
| 205-99-2-----  | Benzo(b)fluoranthene       | 5                    | U |
| 207-08-9-----  | Benzo(k)fluoranthene       | 5                    | U |
| 50-32-8-----   | Benzo(a)pyrene             | 5                    | U |
| 193-39-5-----  | Indeno(1,2,3-cd)Pyrene     | 5                    | U |
| 53-70-3-----   | Dibenz(a,h)anthracene      | 5                    | U |
| 191-24-2-----  | Benzo(g,h,i)perylene       | 5                    | U |

(1) - Cannot be separated from Diphenylamine

1LCF  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00FG

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004

Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: E00FL

Lab Sample ID: 6050.004      Date Received: 05/03/00

Lab File ID: H1033      Date Extracted: 05/05/00

Sample Volume: 1000 (mL)      Date Analyzed: 05/16/00

Concentrated Extract Volume: 1000 (uL)      Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

Number TICs found:      0

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC.<br>(ug/L) | Q |
|------------|---------------|----|----------------------|---|
| 1.         |               |    |                      |   |
| 2.         |               |    |                      |   |
| 3.         |               |    |                      |   |
| 4.         |               |    |                      |   |
| 5.         |               |    |                      |   |
| 6.         |               |    |                      |   |
| 7.         |               |    |                      |   |
| 8.         |               |    |                      |   |
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| 16.        |               |    |                      |   |
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| 26.        |               |    |                      |   |
| 27.        |               |    |                      |   |
| 28.        |               |    |                      |   |
| 29.        |               |    |                      |   |
| 30.        |               |    |                      |   |

1LCB  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00FH

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004  
 Lab Code: PDP Case No.: 27986 SAS No.: \_\_\_\_\_ SDG No.: E00FL  
 Lab Sample ID: 6050.005 Date Received: 05/03/00  
 Lab File ID: H1034 Date Extracted: 05/05/00  
 Sample Volume: 1000 (mL) Date Analyzed: 05/16/00  
 Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0  
 Injection Volume: 1.0 (uL)

| CAS NO.  | COMPOUND                     | CONCENTRATION<br>(ug/L) | Q |
|----------|------------------------------|-------------------------|---|
| 108-95-2 | Phenol                       | 5                       | U |
| 111-44-4 | bis(2-Chloroethyl) ether     | 5                       | U |
| 95-57-8  | 2-Chlorophenol               | 5                       | U |
| 95-48-7  | 2-Methylphenol               | 5                       | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 5                       | U |
| 106-44-5 | 4-Methylphenol               | 5                       | U |
| 621-64-7 | N-Nitroso-di-n-propylamine   | 5                       | U |
| 67-72-1  | Hexachloroethane             | 5                       | U |
| 98-95-3  | Nitrobenzene                 | 5                       | U |
| 78-59-1  | Isophorone                   | 5                       | U |
| 88-75-5  | 2-Nitrophenol                | 5                       | U |
| 105-67-9 | 2,4-Dimethylphenol           | 5                       | U |
| 111-91-1 | bis(2-Chloroethoxy)methane   | 5                       | U |
| 120-83-2 | 2,4-Dichlorophenol           | 5                       | U |
| 91-20-3  | Naphthalene                  | 5                       | U |
| 106-47-8 | 4-Chloroaniline              | 5                       | U |
| 87-68-3  | Hexachlorobutadiene          | 5                       | U |
| 59-50-7  | 4-Chloro-3-methylphenol      | 5                       | U |
| 91-57-6  | 2-Methylnaphthalene          | 5                       | U |
| 77-47-4  | Hexachlorocyclopentadiene    | 5                       | U |
| 88-06-2  | 2,4,6-Trichlorophenol        | 5                       | U |
| 95-95-4  | 2,4,5-Trichlorophenol        | 20                      | U |
| 91-58-7  | 2-Chloronaphthalene          | 5                       | U |
| 88-74-4  | 2-Nitroaniline               | 20                      | U |
| 131-11-3 | Dimethylphthalate            | 5                       | U |
| 208-96-8 | Acenaphthylene               | 5                       | U |
| 606-20-2 | 2,6-Dinitrotoluene           | 5                       | U |
| 99-09-2  | 3-Nitroaniline               | 20                      | U |
| 83-32-9  | Acenaphthene                 | 5                       | U |

1LCC  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00FH

Lab Name: PDP ANALYTICAL SERVICES Contract: 68-D7-0004  
 Lab Code: PDP Case No.: 27986 SAS No.: \_\_\_\_\_ SDG No.: E00FL  
 Lab Sample ID: 6050.005 Date Received: 05/03/00  
 Lab File ID: H1034 Date Extracted: 05/05/00  
 Sample Volume: 1000 (mL) Date Analyzed: 05/16/00  
 Concentrated Extract Volume: 1000 (uL) Dilution Factor: 1.0  
 Injection Volume: 1 (uL)

| CAS NO.   | COMPOUND                   | CONCENTRATION<br>(ug/L) | Q |
|-----------|----------------------------|-------------------------|---|
| 51-28-5   | 2,4-Dinitrophenol          | 20                      | U |
| 100-02-7  | 4-Nitrophenol              | 20                      | U |
| 132-64-9  | Dibenzofuran               | 5                       | U |
| 121-14-2  | 2,4-Dinitrotoluene         | 5                       | U |
| 84-66-2   | Diethylphthalate           | 3                       | J |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 5                       | U |
| 86-73-7   | Fluorene                   | 5                       | U |
| 100-01-6  | 4-Nitroaniline             | 20                      | U |
| 534-52-1  | 4,6-Dinitro-2-methylphenol | 20                      | U |
| 86-30-6   | N-Nitrosodiphenylamine (1) | 5                       | U |
| 101-55-3  | 4-Bromophenyl-phenylether  | 5                       | U |
| 118-74-1  | Hexachlorobenzene          | 5                       | U |
| 87-86-5   | Pentachlorophenol          | 20                      | U |
| 85-01-8   | Phenanthrene               | 5                       | U |
| 120-12-7  | Anthracene                 | 5                       | U |
| 84-74-2   | Di-n-butylphthalate        | 5                       | U |
| 206-44-0  | Fluoranthene               | 5                       | U |
| 129-00-0  | Pyrene                     | 5                       | U |
| 85-68-7   | Butylbenzylphthalate       | 4                       | J |
| 91-94-1   | 3,3'-Dichlorobenzidine     | 5                       | U |
| 56-55-3   | Benzo(a)anthracene         | 5                       | U |
| 218-01-9  | Chrysene                   | 5                       | U |
| 117-81-7  | bis(2-Ethylhexyl)phthalate | 19                      |   |
| 117-84-0  | Di-n-octylphthalate        | 4                       | J |
| 205-99-2  | Benzo(b)fluoranthene       | 5                       | U |
| 207-08-9  | Benzo(k)fluoranthene       | 5                       | U |
| 50-32-8   | Benzo(a)pyrene             | 5                       | U |
| 193-39-5  | Indeno(1,2,3-cd)Pyrene     | 5                       | U |
| 53-70-3   | Dibenz(a,h)anthracene      | 5                       | U |
| 191-24-2  | Benzo(g,h,i)perylene       | 5                       | U |

(1) - Cannot be separated from Diphenylamine

1LCF  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00FH

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004

Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: E00FL

Lab Sample ID: 6050.005      Date Received: 05/03/00

Lab File ID: H1034      Date Extracted: 05/05/00

Sample Volume: 1000 (mL)      Date Analyzed: 05/16/00

Concentrated Extract Volume: 1000 (uL)      Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

Number TICs found:      0

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC.<br>(ug/L) | Q |
|------------|---------------|----|----------------------|---|
| 1.         |               |    |                      |   |
| 2.         |               |    |                      |   |
| 3.         |               |    |                      |   |
| 4.         |               |    |                      |   |
| 5.         |               |    |                      |   |
| 6.         |               |    |                      |   |
| 7.         |               |    |                      |   |
| 8.         |               |    |                      |   |
| 9.         |               |    |                      |   |
| 10.        |               |    |                      |   |
| 11.        |               |    |                      |   |
| 12.        |               |    |                      |   |
| 13.        |               |    |                      |   |
| 14.        |               |    |                      |   |
| 15.        |               |    |                      |   |
| 16.        |               |    |                      |   |
| 17.        |               |    |                      |   |
| 18.        |               |    |                      |   |
| 19.        |               |    |                      |   |
| 20.        |               |    |                      |   |
| 21.        |               |    |                      |   |
| 22.        |               |    |                      |   |
| 23.        |               |    |                      |   |
| 24.        |               |    |                      |   |
| 25.        |               |    |                      |   |
| 26.        |               |    |                      |   |
| 27.        |               |    |                      |   |
| 28.        |               |    |                      |   |
| 29.        |               |    |                      |   |
| 30.        |               |    |                      |   |

1LCB  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00FJ

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004

Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: E00FL

Lab Sample ID: 6050.006      Date Received: 05/03/00

Lab File ID: H1035      Date Extracted: 05/05/00

Sample Volume: 1000 (mL)      Date Analyzed: 05/16/00

Concentrated Extract Volume: 1000 (uL)      Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

| CAS NO.       | COMPOUND                     | CONCENTRATION<br>(ug/L) | Q |
|---------------|------------------------------|-------------------------|---|
| 108-95-2----- | Phenol                       | 5                       | U |
| 111-44-4----- | bis(2-Chloroethyl) ether     | 5                       | U |
| 95-57-8-----  | 2-Chlorophenol               | 5                       | U |
| 95-48-7-----  | 2-Methylphenol               | 5                       | U |
| 108-60-1----- | 2,2'-oxybis(1-Chloropropane) | 5                       | U |
| 106-44-5----- | 4-Methylphenol               | 5                       | U |
| 621-64-7----- | N-Nitroso-di-n-propylamine   | 5                       | U |
| 67-72-1-----  | Hexachloroethane             | 5                       | U |
| 98-95-3-----  | Nitrobenzene                 | 5                       | U |
| 78-59-1-----  | Isophorone                   | 5                       | U |
| 88-75-5-----  | 2-Nitrophenol                | 5                       | U |
| 105-67-9----- | 2,4-Dimethylphenol           | 5                       | U |
| 111-91-1----- | bis(2-Chloroethoxy)methane   | 5                       | U |
| 120-83-2----- | 2,4-Dichlorophenol           | 5                       | U |
| 91-20-3-----  | Naphthalene                  | 5                       | U |
| 106-47-8----- | 4-Chloroaniline              | 5                       | U |
| 87-68-3-----  | Hexachlorobutadiene          | 5                       | U |
| 59-50-7-----  | 4-Chloro-3-methylphenol      | 5                       | U |
| 91-57-6-----  | 2-Methylnaphthalene          | 5                       | U |
| 77-47-4-----  | Hexachlorocyclopentadiene    | 5                       | U |
| 88-06-2-----  | 2,4,6-Trichlorophenol        | 5                       | U |
| 95-95-4-----  | 2,4,5-Trichlorophenol        | 20                      | U |
| 91-58-7-----  | 2-Chloronaphthalane          | 5                       | U |
| 88-74-4-----  | 2-Nitroaniline               | 20                      | U |
| 131-11-3----- | Dimethylphthalate            | 5                       | U |
| 208-96-8----- | Acenaphthylene               | 5                       | U |
| 606-20-2----- | 2,6-Dinitrotoluene           | 5                       | U |
| 99-09-2-----  | 3-Nitroaniline               | 20                      | U |
| 83-32-9-----  | Acenaphthene                 | 5                       | U |

1LCC  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00FJ

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: E00FL

Lab Sample ID: 6050.006

Date Received: 05/03/00

Lab File ID: H1035

Date Extracted: 05/05/00

Sample Volume: 1000 (mL)

Date Analyzed: 05/16/00

Concentrated Extract Volume: 1000 (uL)

Dilution Factor: 1.0

Injection Volume: 1 (uL)

| CAS NO.   | COMPOUND                   | CONCENTRATION<br>(ug/L) | Q     |
|-----------|----------------------------|-------------------------|-------|
| 51-28-5   | 2,4-Dinitrophenol          | 20                      | U     |
| 100-02-7  | 4-Nitrophenol              | 20                      | U     |
| 132-64-9  | Dibenzofuran               | 5                       | U     |
| 121-14-2  | 2,4-Dinitrotoluene         | 5                       | U     |
| 84-66-2   | Diethylphthalate           | 2                       | J     |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 5                       | U     |
| 86-73-7   | Fluorene                   | 5                       | U     |
| 100-01-6  | 4-Nitroaniline             | 20                      | U     |
| 534-52-1  | 4,6-Dinitro-2-methylphenol | 20                      | U     |
| 86-30-6   | N-Nitrosodiphenylamine (1) | 5                       | U     |
| 101-55-3  | 4-Bromophenyl-phenylether  | 5                       | U     |
| 118-74-1  | Hexachlorobenzene          | 5                       | U     |
| 87-86-5   | Pentachlorophenol          | 20                      | U     |
| 85-01-8   | Phenanthrene               | 5                       | U     |
| 120-12-7  | Anthracene                 | 5                       | U     |
| 84-74-2   | Di-n-butylphthalate        | 5                       | U     |
| 206-44-0  | Fluoranthene               | 5                       | U     |
| 129-00-0  | Pyrene                     | 5                       | U     |
| 85-68-7   | Butylbenzylphthalate       | 5                       | U     |
| 91-94-1   | 3,3'-Dichlorobenzidine     | 5                       | U     |
| 56-55-3   | Benzo(a)anthracene         | 5                       | U     |
| 218-01-9  | Chrysene                   | 5                       | U     |
| 117-81-7  | bis(2-Ethylhexyl)phthalate | 35                      | _____ |
| 117-84-0  | Di-n-octylphthalate        | 5                       | U     |
| 205-99-2  | Benzo(b)fluoranthene       | 5                       | U     |
| 207-08-9  | Benzo(k)fluoranthene       | 5                       | U     |
| 50-32-8   | Benzo(a)pyrene             | 5                       | U     |
| 193-39-5  | Indeno(1,2,3-cd)Pyrene     | 5                       | U     |
| 53-70-3   | Dibenz(a,h)anthracene      | 5                       | U     |
| 191-24-2  | Benzo(g,h,i)perylene       | 5                       | U     |

(1) - Cannot be separated from Diphenylamine

1LCF  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00FJ

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004

Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: E00FL

Lab Sample ID: 6050.006      Date Received: 05/03/00

Lab File ID: H1035      Date Extracted: 05/05/00

Sample Volume: 1000 (mL)      Date Analyzed: 05/16/00

Concentrated Extract Volume: 1000 (uL)      Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

Number TICs found: 0

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC.<br>(ug/L) | Q |
|------------|---------------|----|----------------------|---|
| 1.         |               |    |                      |   |
| 2.         |               |    |                      |   |
| 3.         |               |    |                      |   |
| 4.         |               |    |                      |   |
| 5.         |               |    |                      |   |
| 6.         |               |    |                      |   |
| 7.         |               |    |                      |   |
| 8.         |               |    |                      |   |
| 9.         |               |    |                      |   |
| 10.        |               |    |                      |   |
| 11.        |               |    |                      |   |
| 12.        |               |    |                      |   |
| 13.        |               |    |                      |   |
| 14.        |               |    |                      |   |
| 15.        |               |    |                      |   |
| 16.        |               |    |                      |   |
| 17.        |               |    |                      |   |
| 18.        |               |    |                      |   |
| 19.        |               |    |                      |   |
| 20.        |               |    |                      |   |
| 21.        |               |    |                      |   |
| 22.        |               |    |                      |   |
| 23.        |               |    |                      |   |
| 24.        |               |    |                      |   |
| 25.        |               |    |                      |   |
| 26.        |               |    |                      |   |
| 27.        |               |    |                      |   |
| 28.        |               |    |                      |   |
| 29.        |               |    |                      |   |
| 30.        |               |    |                      |   |

1LCB  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00FK

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: E00FL

Lab Sample ID: 6050.007

Date Received: 05/03/00

Lab File ID: H1036

Date Extracted: 05/05/00

Sample Volume: 1000 (mL)

Date Analyzed: 05/16/00

Concentrated Extract Volume: 1000 (uL)

Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

| CAS NO.  | COMPOUND                     | CONCENTRATION<br>(ug/L) | Q |
|----------|------------------------------|-------------------------|---|
| 108-95-2 | Phenol                       | 5                       | U |
| 111-44-4 | bis(2-Chloroethyl) ether     | 5                       | U |
| 95-57-8  | 2-Chlorophenol               | 5                       | U |
| 95-48-7  | 2-Methylphenol               | 5                       | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 5                       | U |
| 106-44-5 | 4-Methylphenol               | 5                       | U |
| 621-64-7 | N-Nitroso-di-n-propylamine   | 5                       | U |
| 67-72-1  | Hexachloroethane             | 5                       | U |
| 98-95-3  | Nitrobenzene                 | 5                       | U |
| 78-59-1  | Isophorone                   | 5                       | U |
| 88-75-5  | 2-Nitrophenol                | 5                       | U |
| 105-67-9 | 2,4-Dimethylphenol           | 5                       | U |
| 111-91-1 | bis(2-Chloroethoxy)methane   | 5                       | U |
| 120-83-2 | 2,4-Dichlorophenol           | 5                       | U |
| 91-20-3  | Naphthalene                  | 5                       | U |
| 106-47-8 | 4-Chloroaniline              | 5                       | U |
| 87-68-3  | Hexachlorobutadiene          | 5                       | U |
| 59-50-7  | 4-Chloro-3-methylphenol      | 5                       | U |
| 91-57-6  | 2-Methylnaphthalene          | 5                       | U |
| 77-47-4  | Hexachlorocyclopentadiene    | 5                       | U |
| 88-06-2  | 2,4,6-Trichlorophenol        | 5                       | U |
| 95-95-4  | 2,4,5-Trichlorophenol        | 20                      | U |
| 91-58-7  | 2-Chloronaphthalane          | 5                       | U |
| 88-74-4  | 2-Nitroaniline               | 20                      | U |
| 131-11-3 | Dimethylphthalate            | 5                       | U |
| 208-96-8 | Acenaphthylene               | 5                       | U |
| 606-20-2 | 2,6-Dinitrotoluene           | 5                       | U |
| 99-09-2  | 3-Nitroaniline               | 20                      | U |
| 83-32-9  | Acenaphthene                 | 5                       | U |

1LCC  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E00FK

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.:

SDG No.: E00FL

Lab Sample ID: 6050.007

Date Received: 05/03/00

Lab File ID: H1036

Date Extracted: 05/05/00

Sample Volume: 1000 (mL)

Date Analyzed: 05/16/00

Concentrated Extract Volume: 1000 (uL)

Dilution Factor: 1.0

Injection Volume: 1 (uL)

| CAS NO.   | COMPOUND                   | CONCENTRATION<br>(ug/L) | Q |
|-----------|----------------------------|-------------------------|---|
| 51-28-5   | 2,4-Dinitrophenol          | 20                      | U |
| 100-02-7  | 4-Nitrophenol              | 20                      | U |
| 132-64-9  | Dibenzofuran               | 5                       | U |
| 121-14-2  | 2,4-Dinitrotoluene         | 5                       | U |
| 84-66-2   | Diethylphthalate           | 3                       | J |
| 7005-72-3 | 4-Chlorophenyl-phenylether | 5                       | U |
| 86-73-7   | Fluorene                   | 5                       | U |
| 100-01-6  | 4-Nitroaniline             | 20                      | U |
| 534-52-1  | 4,6-Dinitro-2-methylphenol | 20                      | U |
| 86-30-6   | N-Nitrosodiphenylamine (1) | 5                       | U |
| 101-55-3  | 4-Bromophenyl-phenylether  | 5                       | U |
| 118-74-1  | Hexachlorobenzene          | 5                       | U |
| 87-86-5   | Pentachlorophenol          | 20                      | U |
| 85-01-8   | Phenanthrene               | 5                       | U |
| 120-12-7  | Anthracene                 | 5                       | U |
| 84-74-2   | Di-n-butylphthalate        | 5                       | U |
| 206-44-0  | Fluoranthene               | 5                       | U |
| 129-00-0  | Pyrene                     | 5                       | U |
| 85-68-7   | Butylbenzylphthalate       | 5                       | U |
| 91-94-1   | 3,3'-Dichlorobenzidine     | 5                       | U |
| 56-55-3   | Benzo(a)anthracene         | 5                       | U |
| 218-01-9  | Chrysene                   | 5                       | U |
| 117-81-7  | bis(2-Ethylhexyl)phthalate | 17                      |   |
| 117-84-0  | Di-n-octylphthalate        | 5                       | U |
| 205-99-2  | Benzo(b)fluoranthene       | 5                       | U |
| 207-08-9  | Benzo(k)fluoranthene       | 5                       | U |
| 50-32-8   | Benzo(a)pyrene             | 5                       | U |
| 193-39-5  | Indeno(1,2,3-cd)Pyrene     | 5                       | U |
| 53-70-3   | Dibenz(a,h)anthracene      | 5                       | U |
| 191-24-2  | Benzo(g,h,i)perylene       | 5                       | U |

(1) - Cannot be separated from Diphenylamine

1LCF  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET  
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

E00FK

Lab Name: PDP ANALYTICAL SERVICES      Contract: 68-D7-0004

Lab Code: PDP      Case No.: 27986      SAS No.: \_\_\_\_\_      SDG No.: E00FL

Lab Sample ID: 6050.007      Date Received: 05/03/00

Lab File ID: H1036      Date Extracted: 05/05/00

Sample Volume: 1000 (mL)      Date Analyzed: 05/16/00

Concentrated Extract Volume: 1000 (uL)      Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

Number TICs found:      0

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC.<br>(ug/L) | Q |
|------------|---------------|----|----------------------|---|
| 1.         |               |    |                      |   |
| 2.         |               |    |                      |   |
| 3.         |               |    |                      |   |
| 4.         |               |    |                      |   |
| 5.         |               |    |                      |   |
| 6.         |               |    |                      |   |
| 7.         |               |    |                      |   |
| 8.         |               |    |                      |   |
| 9.         |               |    |                      |   |
| 10.        |               |    |                      |   |
| 11.        |               |    |                      |   |
| 12.        |               |    |                      |   |
| 13.        |               |    |                      |   |
| 14.        |               |    |                      |   |
| 15.        |               |    |                      |   |
| 16.        |               |    |                      |   |
| 17.        |               |    |                      |   |
| 18.        |               |    |                      |   |
| 19.        |               |    |                      |   |
| 20.        |               |    |                      |   |
| 21.        |               |    |                      |   |
| 22.        |               |    |                      |   |
| 23.        |               |    |                      |   |
| 24.        |               |    |                      |   |
| 25.        |               |    |                      |   |
| 26.        |               |    |                      |   |
| 27.        |               |    |                      |   |
| 28.        |               |    |                      |   |
| 29.        |               |    |                      |   |
| 30.        |               |    |                      |   |

1LCB  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E01TP

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: E00FL

Lab Sample ID: 6066.010

Date Received: 05/05/00

Lab File ID: H1049

Date Extracted: 05/09/00

Sample Volume: 1000 (mL)

Date Analyzed: 05/17/00

Concentrated Extract Volume: 1000 (uL)

Dilution Factor: 1.0

Injection Volume: 1.0 (uL)

| CAS NO.  | COMPOUND                     | CONCENTRATION<br>(ug/L) | Q |
|----------|------------------------------|-------------------------|---|
| 108-95-2 | Phenol                       | 5                       | U |
| 111-44-4 | bis(2-Chloroethyl) ether     | 5                       | U |
| 95-57-8  | 2-Chlorophenol               | 5                       | U |
| 95-48-7  | 2-Methylphenol               | 5                       | U |
| 108-60-1 | 2,2'-oxybis(1-Chloropropane) | 5                       | U |
| 106-44-5 | 4-Methylphenol               | 5                       | U |
| 621-64-7 | N-Nitroso-di-n-propylamine   | 5                       | U |
| 67-72-1  | Hexachloroethane             | 5                       | U |
| 98-95-3  | Nitrobenzene                 | 5                       | U |
| 78-59-1  | Isophorone                   | 5                       | U |
| 88-75-5  | 2-Nitrophenol                | 5                       | U |
| 105-67-9 | 2,4-Dimethylphenol           | 5                       | U |
| 111-91-1 | bis(2-Chloroethoxy)methane   | 5                       | U |
| 120-83-2 | 2,4-Dichlorophenol           | 5                       | U |
| 91-20-3  | Naphthalene                  | 5                       | U |
| 106-47-8 | 4-Chloroaniline              | 5                       | U |
| 87-68-3  | Hexachlorobutadiene          | 5                       | U |
| 59-50-7  | 4-Chloro-3-methylphenol      | 5                       | U |
| 91-57-6  | 2-Methylnaphthalene          | 5                       | U |
| 77-47-4  | Hexachlorocyclopentadiene    | 5                       | U |
| 88-06-2  | 2,4,6-Trichlorophenol        | 5                       | U |
| 95-95-4  | 2,4,5-Trichlorophenol        | 20                      | U |
| 91-58-7  | 2-Chloronaphthalene          | 5                       | U |
| 88-74-4  | 2-Nitroaniline               | 20                      | U |
| 131-11-3 | Dimethylphthalate            | 5                       | U |
| 208-96-8 | Acenaphthylene               | 5                       | U |
| 606-20-2 | 2,6-Dinitrotoluene           | 5                       | U |
| 99-09-2  | 3-Nitroaniline               | 20                      | U |
| 83-32-9  | Acenaphthene                 | 5                       | U |

1LCC  
 LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

E01TP

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: E00FL

Lab Sample ID: 6066.010

Date Received: 05/05/00

Lab File ID: H1049

Date Extracted: 05/09/00

Sample Volume: 1000 (mL)

Date Analyzed: 05/17/00

Concentrated Extract Volume: 1000 (uL)

Dilution Factor: 1.0

Injection Volume: 1 (uL)

| CAS NO.        | COMPOUND                   | CONCENTRATION<br>(ug/L) | Q |
|----------------|----------------------------|-------------------------|---|
| 51-28-5-----   | 2,4-Dinitrophenol          | 20                      | U |
| 100-02-7-----  | 4-Nitrophenol              | 20                      | U |
| 132-64-9-----  | Dibenzofuran               | 5                       | U |
| 121-14-2-----  | 2,4-Dinitrotoluene         | 5                       | U |
| 84-66-2-----   | Diethylphthalate           | 1                       | J |
| 7005-72-3----- | 4-Chlorophenyl-phenylether | 5                       | U |
| 86-73-7-----   | Fluorene                   | 5                       | U |
| 100-01-6-----  | 4-Nitroaniline             | 20                      | U |
| 534-52-1-----  | 4,6-Dinitro-2-methylphenol | 20                      | U |
| 86-30-6-----   | N-Nitrosodiphenylamine (1) | 5                       | U |
| 101-55-3-----  | 4-Bromophenyl-phenylether  | 5                       | U |
| 118-74-1-----  | Hexachlorobenzene          | 5                       | U |
| 87-86-5-----   | Pentachlorophenol          | 20                      | U |
| 85-01-8-----   | Phenanthrene               | 5                       | U |
| 120-12-7-----  | Anthracene                 | 5                       | U |
| 84-74-2-----   | Di-n-butylphthalate        | 5                       | U |
| 206-44-0-----  | Fluoranthene               | 5                       | U |
| 129-00-0-----  | Pyrene                     | 5                       | U |
| 85-68-7-----   | Butylbenzylphthalate       | 5                       | U |
| 91-94-1-----   | 3,3'-Dichlorobenzidine     | 5                       | U |
| 56-55-3-----   | Benzo(a)anthracene         | 5                       | U |
| 218-01-9-----  | Chrysene                   | 5                       | U |
| 117-81-7-----  | bis(2-Ethylhexyl)phthalate | 2                       | J |
| 117-84-0-----  | Di-n-octylphthalate        | 5                       | U |
| 205-99-2-----  | Benzo(b)fluoranthene       | 5                       | U |
| 207-08-9-----  | Benzo(k)fluoranthene       | 5                       | U |
| 50-32-8-----   | Benzo(a)pyrene             | 5                       | U |
| 193-39-5-----  | Indeno(1,2,3-cd)Pyrene     | 5                       | U |
| 53-70-3-----   | Dibenz(a,h)anthracene      | 5                       | U |
| 191-24-2-----  | Benzo(g,h,i)perylene       | 5                       | U |

(1) - Cannot be separated from Diphenylamine

LOW CONC. WATER SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

1LCC

EPA SAMPLE NO.

SLCS76 ✓

Lab Name: PDP ANALYTICAL SERVICES

Contract: 68-D7-0004

Lab Code: PDP

Case No.: 27986

SAS No.: \_\_\_\_\_

SDG No.: E00FL

Lab Sample ID: SVOL608

Date Received: \_\_\_\_\_

Lab File ID: H1039

Date Extracted: 05/09/00

Sample Volume: 1000 (mL)

Date Analyzed: 05/16/00

Concentrated Extract Volume: 1000 (uL)

Dilution Factor: 1.0

Injection Volume: 1 (uL)

| CAS NO.        | COMPOUND                   | CONCENTRATION<br>(ug/L) | Q |
|----------------|----------------------------|-------------------------|---|
| 51-28-5-----   | 2,4-Dinitrophenol          | 20                      | U |
| 100-02-7-----  | 4-Nitrophenol              | 20                      | U |
| 132-64-9-----  | Dibenzofuran               | 5                       | U |
| 121-14-2-----  | 2,4-Dinitrotoluene         | 11                      |   |
| 84-66-2-----   | Diethylphthalate           | 13                      |   |
| 7005-72-3----- | 4-Chlorophenyl-phenylether | 5                       | U |
| 86-73-7-----   | Fluorene                   | 5                       | U |
| 100-01-6-----  | 4-Nitroaniline             | 20                      | U |
| 534-52-1-----  | 4,6-Dinitro-2-methylphenol | 20                      | U |
| 86-30-6-----   | N-Nitrosodiphenylamine (1) | 12                      |   |
| 101-55-3-----  | 4-Bromophenyl-phenylether  | 5                       | U |
| 118-74-1-----  | Hexachlorobenzene          | 12                      |   |
| 87-86-5-----   | Pentachlorophenol          | 20                      | U |
| 85-01-8-----   | Phenanthrene               | 5                       | U |
| 120-12-7-----  | Anthracene                 | 5                       | U |
| 84-74-2-----   | Di-n-butylphthalate        | 5                       | U |
| 206-44-0-----  | Fluoranthene               | 5                       | U |
| 129-00-0-----  | Pyrene                     | 5                       | U |
| 85-68-7-----   | Butylbenzylphthalate       | 5                       | U |
| 91-94-1-----   | 3,3'-Dichlorobenzidine     | 5                       | U |
| 56-55-3-----   | Benzo(a)anthracene         | 5                       | U |
| 218-01-9-----  | Chrysene                   | 5                       | U |
| 117-81-7-----  | bis(2-Ethylhexyl)phthalate | 5                       | U |
| 117-84-0-----  | Di-n-octylphthalate        | 5                       | U |
| 205-99-2-----  | Benzo(b)fluoranthene       | 5                       | U |
| 207-08-9-----  | Benzo(k)fluoranthene       | 5                       | U |
| 50-32-8-----   | Benzo(a)pyrene             | 15                      |   |
| 193-39-5-----  | Indeno(1,2,3-cd)Pyrene     | 5                       | U |
| 53-70-3-----   | Dibenz(a,h)anthracene      | 5                       | U |
| 191-24-2-----  | Benzo(g,h,i)perylene       | 5                       | U |

(1) - Cannot be separated from Diphenylamine